EXHIBIT 9

Page 1

IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF NEW JERSEY

IN RE JOHNSON & JOHNSON)
TALCUM POWDER PRODUCTS)
MARKETING, SALES) MDL NO.
PRACTICES, AND PRODUCTS) 16-2738 (FLW) (LHG)
LIABILITY LITIGATION)

THIS DOCUMENT RELATES TO)
ALL CASES)

Saturday, January 19, 2019

Videotaped Deposition of ARCH I. "CHIP"
CARSON, M.D., Ph.D., held at the Marriott
Houston Medical Center, 6580 Fannin Street,
Houston, Texas, commencing at 9:02 a.m., on
the above date, before Michael E. Miller,
Fellow of the Academy of Professional
Reporters, Certified Court Reporter,
Registered Diplomate Reporter, Certified
Realtime Reporter and Notary Public.

GOLKOW LITIGATION SERVICES 877.370.DEPS | fax 917.591.5672 deps@golkow.com

Arch I. "Chip" Carson, M.D., Ph.D.

| | | Page 2 | | | | Page 4 |
|----------|---|--------|----------|--|------------------|------------------|
| 1 2 | A P P E A R A N C E S: BEASLEY ALLEN, PC | | 1 | INDEX | | |
| 3 | BY: P. LEIGH O'DELL, ESQUIRE leigh.odell@beasleyallen.com | | 2 | APPEARANCES | 2 | |
| 4 | MARGARET M. THOMPSON, ESQUIRE margaret.thompson@beasleyallen.com 234 Commerce Street | | 3 4 | PROCEEDINGS | 8 | |
| 5 6 | Montgomery, Alabama 36103-4160 (334) 269-2343 Counsel for Plaintiffs' Steering | | 5 | EXAMINATION OF ARCH | H I. "CHIP" CARS | ON, M.D., Ph.D.: |
| 7 | Committee | | 6 | BY MR. ZELLERS | 9 | |
| 8 | BURNS CHAREST LLP BY: AMANDA KLEVORN, ESQUIRE aklevorn@burnscharest.com | | 7 | BY MS. BOCKUS | 284 | |
| 10 | 365 Canal Street Suite 1170 New Orleans, Louisiana 70130 | | 8 | BY MS. APPEL | 343 | |
| 11 | (504) 799-2845 Counsel for Plaintiffs | | 10 | CERTIFICATE | 364 | |
| 12 13 | TUCKER ELLIS LLP BY: MICHAEL C. ZELLERS, ESQUIRE | | 11 | ERRATA | 366 | |
| 14 | michael.zellers@tuckerellis.com 515 South Flower Street | | 12 | ACKNOWLEDGMENT OF | F DEPONENT | 367 |
| 15 16 | 42nd Floor Los Angeles, California 90071 (213) 430-3400 | | 13 | LAWYER'S NOTES | 368 | |
| 17 | Counsel for Johnson & Johnson Defendants | | 14 15 | | | |
| 18 19 | DRINKER BIDDLE & REATH, LLP BY: KATHERINE MCBETH, ESQUIRE | | 16 17 | | | |
| 20 | katherine.mcbeth@dbr.com One Logan Square, Suite 2000 | | 18 19 | | | |
| 21 | Philadelphia, Pennsylvania 19103 (215) 988-2706 | | 20 21 | | | |
| 23 | Counsel for Johnson & Johnson Defendants | | 22 23 | | | |
| 24 | | | 24 | | | |
| | | Page 3 | | | | Page 5 |
| 1 2 | A P P E A R A N C E S: DYKEMA GOSSETT PLLC | | 1 | DEPOSITION EXI ARCH I. "CHIP" CARS | | |
| 3 | BY: JANE E. BOCKUS, ESQUIRE jbockus@dykema.com | | 2 3 | January 19, 2019 NUMBER DESCRIP | | |
| 4 | 112 East Pecan Street Suite 1800 San Antonio, Texas 78205 | | 4 5 | Exhibit 1 Notice of Depositi Exhibit 2 11/16/18 Carson E | | |
| 5 | (210) 554-5500 Counsel for Imerys Talc America | | 6 | Report Exhibit 3 Carson Curriculun | ı Vitae 21 | |
| 6 7 | COUGHLIN DUFFY LLP | | 7 | Exhibit 4 Listing of Literatur | | |
| 8 | BY: JONATHAN F. DONATH, ESQUIRE jdonath@coughlinduffy.com | | 8 9 | Reviewed Exhibit 5 2019 Longo et al | 26 | |
| 9 | 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 | | 10 | Publication | 24 | |
| 10 11 | Counsel for Imerys Talc America | | 11 12 | Exhibit 6 2019 Fletcher et al Publication Exhibit 7 Undated Taher et a | | |
| 12 | TUCKER ELLIS LLP BY: CAROLINE M. TINSLEY, ESQUIRE | | 13 | Publication | | |
| 13 14 | caroline.tinsley@tuckerellis.com 100 South Fourth Street, Suite 600 St. Louis, MO 63102 | | 14 | Exhibit 8 1952 Graham et al Publication | | |
| 15 | (216) 696-3675 Counsel for PTI Royston LLC and PTI | | 15 | Exhibit 9 12/18 Health Cana Screening Assessment | | |
| 16 | Union LLC | | 16 17 | Exhibit 10 1/1/14 FDA Lette Epstein | r to 31 | |
| 17 18 | SEYFARTH SHAW, LLP BY: RENEE B. APPEL, ESQUIRE rappel@seyfarth.com | | 18 | Exhibit 11 1991 Blount et al Publication | 32 | |
| 19 | 975 F Street, N.W. Washington, D.C. 20004-1454 | | 19 | Exhibit 12 1974 Parmley et a | ıl 32 | |
| 20 21 | (202) 463-2400 Counsel for Personal Care Products | | 20 21 | Publication Exhibit 13 USB Drive Conta Materials Reviewed | ining 36 | |
| 22 | VIDEOGRAPHER: | | 22 | Exhibit 14 8/1/00 Health Car | nada 98 | |
| 23 | DOUG OVERSTREET, | | 23 | Decision-Making Fran | | |

2 (Pages 2 to 5)

Arch I. "Chip" Carson, M.D., Ph.D.

| | Page 6 | | Page 8 |
|--|--|---|--|
| 1 | DEPOSITION EXHIBITS | 1 | PROCEEDINGS |
| 2 | DEI OSITION EXHIBITS | | |
| | Exhibit 15 Handwritten List of 124 | 2 | (January 19, 2019 at 9:02 a.m.) |
| 3 | Materials Reviewed by Dr. Carson | 3 | THE VIDEOGRAPHER: We are now |
| 4 | Di. Cuison | 4 | on the record. My name is Doug |
| _ | Exhibit 16 1979 Chappell et al 130 | 5 | Overstreet. I'm the videographer for |
| 5 6 | Publication Exhibit 17 2011 Reid et al Publication 159 | 6 | Golkow Litigation Services. Today is |
| 7 | Exhibit 18 2011 Camargo et al 163 | 7 | January 19th, 2019. The time is |
| | Publication | 8 | 9:02 a.m. |
| 8 | Exhibit 19 2013 Terry et al 192 | 9 | This video deposition is being |
| 9 | Publication | 10 | held in Houston, Texas in the matter |
| 10 | Exhibit 20 2016 Cramer et al 195 | 11 | of Talcum Powder Litigation MDL |
| 11 | Publication | 12 | No. 2738. |
| | Exhibit 21 IARC Classification Groups 225 | 13 | The deponent is Dr. Chip |
| 12 13 | Document Exhibit 22 2017 Power et al. 242 | 14 | |
| 13 | Exhibit 22 2017 Berge et al 243 Publication 243 | | Carson. |
| 14 | | 15 | Will counsel please identify |
| 15 | Exhibit 23 2007 Langseth et al 247 Publication | 16 | themselves for the record. |
| 16 | Exhibit 24 2016 Schildkraut et al 271 | 17 | MS. O'DELL: Leigh O'Dell, |
| | Publication | 18 | Beasley Allen, for the plaintiffs. |
| 17 | Exhibit 25 Excerpt from IARC 289 | 19 | DR. THOMPSON: Margaret |
| 18 | Monograph 93 | 20 | Thompson, Beasley Allen, for the |
| 19 | | 21 | plaintiffs. |
| 20 21 | | 22 | MS. KLEVORN: Amanda Klevorn, |
| 22 | | 23 | Burns Charest, for the plaintiffs. |
| 23 | | 24 | MR. ZELLERS: Michael Zellers |
| 24 | | | MIN EBBEERS. Michael Benefs |
| | Page 7 | | Page 9 |
| 1 | REFERENCED EXHIBITS | 1 | for the Johnson & Johnson defendants. |
| 2 | | | |
| | | 2 | MS. McBETH: Katherine McBeth, |
| | NUMBER PAGE | 2 3 | MS. McBETH: Katherine McBeth, Drinker Biddle & Reath, for the |
| 3 | | | • |
| | Exhibit 148 | 3 | Drinker Biddle & Reath, for the Johnson & Johnson defendants as well. |
| 4 | Exhibit 148 Hopkins-28 | 3 4 5 | Drinker Biddle & Reath, for the Johnson & Johnson defendants as well. MS. BOCKUS: Jane Bockus for |
| | Exhibit | 3 4 5 6 | Drinker Biddle & Reath, for the Johnson & Johnson defendants as well. MS. BOCKUS: Jane Bockus for Imerys. |
| 4 | Exhibit 148 Hopkins-28 | 3 4 5 6 7 | Drinker Biddle & Reath, for the Johnson & Johnson defendants as well. MS. BOCKUS: Jane Bockus for Imerys. MR. DONATH: Jonathan Donath |
| 4 5 | Exhibit | 3 4 5 6 7 8 | Drinker Biddle & Reath, for the Johnson & Johnson defendants as well. MS. BOCKUS: Jane Bockus for Imerys. MR. DONATH: Jonathan Donath from Coughlin Duffy for Imerys. |
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| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | Exhibit | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | Drinker Biddle & Reath, for the Johnson & Johnson defendants as well. MS. BOCKUS: Jane Bockus for Imerys. MR. DONATH: Jonathan Donath from Coughlin Duffy for Imerys. MS. APPEL: Renée Appel from Seyfarth Shaw for Personal Care Products. MS. TINSLEY: Caroline Tinsley, Tucker Ellis, for PTI Union, LLC and PTI Royston, LLC. THE VIDEOGRAPHER: The court reporter today is Mr. Mike Miller, and he will now swear in the witness. ARCH I. "CHIP" CARSON, M.D., Ph.D., having been duly sworn, testified as follows: EXAMINATION |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Exhibit | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Drinker Biddle & Reath, for the Johnson & Johnson defendants as well. MS. BOCKUS: Jane Bockus for Imerys. MR. DONATH: Jonathan Donath from Coughlin Duffy for Imerys. MS. APPEL: Renée Appel from Seyfarth Shaw for Personal Care Products. MS. TINSLEY: Caroline Tinsley, Tucker Ellis, for PTI Union, LLC and PTI Royston, LLC. THE VIDEOGRAPHER: The court reporter today is Mr. Mike Miller, and he will now swear in the witness. ARCH I. "CHIP" CARSON, M.D., Ph.D., having been duly sworn, testified as follows: EXAMINATION BY MR. ZELLERS: |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | Exhibit | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | Drinker Biddle & Reath, for the Johnson & Johnson defendants as well. MS. BOCKUS: Jane Bockus for Imerys. MR. DONATH: Jonathan Donath from Coughlin Duffy for Imerys. MS. APPEL: Renée Appel from Seyfarth Shaw for Personal Care Products. MS. TINSLEY: Caroline Tinsley, Tucker Ellis, for PTI Union, LLC and PTI Royston, LLC. THE VIDEOGRAPHER: The court reporter today is Mr. Mike Miller, and he will now swear in the witness. ARCH I. "CHIP" CARSON, M.D., Ph.D., having been duly sworn, testified as follows: EXAMINATION BY MR. ZELLERS: Q. Can you state your name, |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Exhibit | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Drinker Biddle & Reath, for the Johnson & Johnson defendants as well. MS. BOCKUS: Jane Bockus for Imerys. MR. DONATH: Jonathan Donath from Coughlin Duffy for Imerys. MS. APPEL: Renée Appel from Seyfarth Shaw for Personal Care Products. MS. TINSLEY: Caroline Tinsley, Tucker Ellis, for PTI Union, LLC and PTI Royston, LLC. THE VIDEOGRAPHER: The court reporter today is Mr. Mike Miller, and he will now swear in the witness. ARCH I. "CHIP" CARSON, M.D., Ph.D., having been duly sworn, testified as follows: EXAMINATION BY MR. ZELLERS: |

3 (Pages 6 to 9)

| | Page 10 | | Page 12 |
|----|---|----|--|
| 1 | A. Arch Carson. | 1 | BY MR. ZELLERS: |
| 2 | Q. You are a physician; is that | 2 | Q. As best we can, let me finish |
| 3 | right? | 3 | my question before you start to give your |
| 4 | A. I am. | 4 | answer. I'll do the same and allow you to |
| 5 | Q. A medical toxicologist? | 5 | finish your answer before I ask you another |
| 6 | A. Yes. | 6 | question so our court reporter can take down |
| 7 | Q. We are here today to take your | 7 | what each of us say. |
| 8 | deposition in the talc MDL litigation | 8 | Can you do that? |
| 9 | proceedings; is that right? | 9 | A. Yes. |
| 10 | A. As far as I know, yes. | 10 | Q. In response to the notice of |
| 11 | Q. You are an expert witness for | 11 | deposition, which we've marked as Exhibit 1, |
| 12 | the plaintiffs in that litigation; is that | 12 | have you brought with you certain documents |
| 13 | right? | 13 | here today? |
| 14 | A. Yes. | 14 | A. I have a collection of |
| 15 | Q. Did you receive a notice of | 15 | documents that in part respond to these |
| 16 | deposition, which we'll mark as Exhibit 1, to | 16 | requests, yes. |
| 17 | appear here today? | 17 | Q. Do you have any documents in |
| 18 | (Carson Deposition Exhibit 1 | 18 | your possession that are responsive to the |
| 19 | marked.) | 19 | notice of deposition, Exhibit 1, that you |
| 20 | A. Yes, I received a copy of this | 20 | have not brought here today? |
| 21 | document. | 21 | A. I would have to go through |
| 22 | MS. O'DELL: And, Michael, just | 22 | these things one by one, but |
| 23 | for the record, we just reassert all | 23 | Q. You didn't do that before we |
| 24 | our previously served objections to | 24 | came here today? |
| | our previously served objections to | | came here today. |
| | Page 11 | | Page 13 |
| 1 | the notice. | 1 | A. I did, but the plaintiffs' |
| 2 | MR. ZELLERS: Thank you. | 2 | attorneys |
| 3 | BY MR. ZELLERS: | 3 | MS. O'DELL: Let me just stop |
| 4 | Q. You have given deposition | 4 | you, Dr. Carson, just because |
| 5 | testimony in the past; is that right? | 5 | discussing what we've discussed is not |
| 6 | A. I have. | 6 | within the purview of this deposition. |
| 7 | Q. On how many occasions? | 7 | That's privileged. Let me just say |
| 8 | A. Probably 30, 35. | 8 | THE WITNESS: All right. |
| 9 | Q. You are familiar with the | 9 | MS. O'DELL: Dr. Carson, in |
| 10 | procedures we're going to follow today? | 10 | response to the notice, has brought |
| 11 | A. More or less, I think. | 11 | with him copies of the cited materials |
| 12 | Q. If at any time I ask you a | 12 | in his report, and that's in the |
| 13 | question and you don't understand it, tell me | 13 | binder that is to his left. |
| 14 | you don't understand it and I'll repeat it or | 14 | He's brought with him copies of |
| 15 | rephrase it to try to make it clear to you. | 15 | certain documents that were listed on |
| 16 | Can you do that? | 16 | his materials considered list. He |
| 17 | A. Yes. | 17 | doesn't have a physical copy of |
| 18 | Q. If you answer a question that I | 18 | everything on his materials considered |
| 19 | ask or that any of the counsel ask, we're | 19 | list. |
| 20 | going to assume that you understood it; is | 20 | I brought today a thumb drive |
| 21 | that fair? | 21 | that has a copy of all the items on |
| 22 | MS. O'DELL: Object to form. | 22 | his materials considered list. If you |
| 23 | A. That's fair. | 23 | would like access to that, it's |
| | | | |
| 24 | /// | 24 | available to you. |

| Page 14 | |
|---|--|
| | Page 16 |
| 1 And then in addition, he has 1 Q. I' | ll ask you about the |
| · · · · · · · · · · · · · · · · · · · | ts in a moment. |
| | pes this report, |
| | Exhibit 2, contain all of the |
| | nat you intend to offer at any |
| | uring of this matter? |
| | n general, it contains all of |
| | ns. I expect to expand on those |
| | ossibly in this deposition or in |
| not sent us an invoice. That's why we 10 the future. | |
| | oday's my opportunity to ask |
| | your opinions are in this matter. |
| | s of today, are the opinions |
| | spressed to us set forth at any |
| | aring in this matter, are they |
| | in your report, Exhibit 2? |
| 17 you're welcome to it. 17 A. I | have seen information that |
| | e available recently that I did not |
| 19 Q. Dr. Carson, you heard 19 have at tha | at time this report was finalized, |
| 20 Ms. O'Dell describe what you brought here 20 and I have | modified my opinions very slightly |
| 21 today. Is all of that accurate? 21 as a result | of that information. |
| 22 A. It is. 22 Q. H | Iow have you modified your |
| Q. Are you aware of there being 23 opinions? | |
| 24 any documents or materials that are 24 A. M | My opinions have essentially |
| | |
| Page 15 | Page 17 |
| 1 responsive to the deposition notice that you 1 been stren | gthened as they relate to the |
| | question between perineal talcum |
| 3 A. No. 3 powder us | se and the occurrence of ovarian |
| 4 Q. I'm trying to understand what 4 cancers. | |
| | Other than you believing that |
| | ions are strengthened with respect |
| | ociation between perineal talcum |
| | se and ovarian cancer, have your |
| | changed at all since you prepared |
| | rt, Exhibit 2? |
| 1 | No. |
| 1 | Are there any new or additional |
| | as of today that you expect to |
| | at trial or any hearing of this |
| | ner than your report, Exhibit 2, and |
| | we qualified that report by stating |
| · | opinions on association are |
| | |
| | |
| | IS. O'DELL: Object to the |
| | |
| Q. Is Deposition Exhibit 2 your 21 form. | ZEI I EDÇ. |
| 21 Q. Is Deposition Exhibit 2 your 21 form. 22 report in this matter? 22 BY MR. 2 | ZELLERS: |
| 21Q. Is Deposition Exhibit 2 your21form.22report in this matter?22BY MR. Z23A. It is. It also has23Q. Q | ZELLERS: Okay. Your report has a list ces that begin on page 11. |

| Page 18 1 | | | | |
|--|---|---|---|---|
| 2 A. Yes. 3 Q. What are the references? What 4 do they relate to? And by that, I mean— 5 I'm just trying to understand what this list 6 is. 7 A. This is a list of references 8 from which I gleaned information that were 9 important to my forming opinions regarding 10 the question that was given to me by the plaintiff's demonstration that were 11 contribute to pieces of the report in various 12 ways. 13 They don't represent a complete 14 review that I made in preparing my report, 15 but all are important in some way in terms of 16 coming to my conclusions. 17 Q. Are the references that you 18 list in your report from page II up and 19 through page 16, are those the materials that 20 you are relying on in terms of your opinions 11 that you're expressing in your report? 12 MS. O'DELL: Objection to form. 13 A. Yes. 14 By MR. ZELLERS: 2 Q. What, then, is the difference 3 between the references to your report and 4 Exhibit B, which has a caption, Literature? 5 A. The Exhibit B represents a materials that you did not contain information that I felt necessary to cite pacific key references that contributed to tiems in that report. 11 By MR. ZELLERS: 2 Q. And those are — 3 MS. O'DELL: Chay. Sorry. 12 MS. O'DELL: Objection to form. 24 Exhibit B, which has a caption, Literature? 25 A. The Exhibit B represents a complete remains including scientific literature, technical reports, and so forth that I reviewed in preparation of my report and the formation of my opinions; but they did not contain information that I felt necessary to cite in my report. 15 MS. O'DELL: Objection to form. 16 Commission to the form, marked. 17 Q. The literature that you cite to a shappendix B of your report are materials that you're specifically relying on are set forth in your references list; is that right? 19 MS. O'DELL: Excuse me, Object to to the form, marked. 10 The With Texts: Yes. 11 MS. O'DELL: Chay. Sorry. 12 MS. O'DELL: Chay. Sorry. 13 A. Yes. 14 A Yes. 15 Carson Deposition Exhibit 4 marked.) 16 Was a stateched to your report; is that ri | | Page 18 | | Page 20 |
| 3 | 1 | Do you see that? | 1 | <u>-</u> |
| do they relate to? And by that, I mean— I'm just trying to understand what this list is. A. This is a list of references from which I gleaned information that were important to my forming opinions regarding the question that was given to me, and they contribute to pieces of the report in various ways. They don't represent a complete review that I made in preparing my report, but all are important in some way in terms of coming to my conclusions. They don't represent a complete review that I made in preparing my report, but all are important in some way in terms of coming to my conclusions. Q. Are the references that you list in your report from page 11 up and the formulate province with the page 12 may be a province of the whole to formulate my opinions. The with the page 14 marked.) Page 19 Page 19 Page 19 Page 19 Page 21 BY MR. ZELLERS: Q. Literature are other materials that you're expressing in your report? A. The Exhibit B represents a larger set of documents, including scientific literature, technical reports, and so forth that I reviewed in preparation of my report and that I reviewed in preparation of my report and as Appendix B of your report are materials that you reviewed but are not the materials that your report are materials that your report are materials that your reviewed but are not the materials that your reviewed but are not the materials that your reviewed but are not the materials that your report are materials that your reviewed but are not the materials that your reviewed your report are materials that your reviewed but are not the materials that your reviewed your report are materi | 2 | | 2 | |
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| | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | between the references to your report and Exhibit B, which has a caption, Literature? A. The Exhibit B represents a larger set of documents, including scientific literature, technical reports, and so forth that I reviewed in preparation of my report and the formation of my opinions; but they did not contain information that I felt necessary to cite in my report. Q. The literature that you cite to as Appendix B of your report are materials that you reviewed but are not the materials that you're specifically relying on. The materials that you're specifically relying on are set forth in your references list; is that right? MS. O'DELL: Excuse me. Object to the form, misstates his testimony. A. My opinions are based on my total review of the literature as well as my training, my professional experience and many | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | exhibits. (Carson Deposition Exhibit 3 marked.) BY MR. ZELLERS: Q. Exhibit 3 is your curriculum vitae that was attached to your report; is that right? A. Yes. (Carson Deposition Exhibit 4 marked.) BY MR. ZELLERS: Q. Exhibit 4 is a copy of your literature list that we just discussed that is in your report; is that right? A. Yes. MS. O'DELL: Thank you. BY MR. ZELLERS: Q. The one difference with Exhibit 4, your literature list that's attached to your report as Appendix B is not numbered. I've gone ahead and numbered the pages on Exhibit 4, your literature list, in |

| Today, when I refer to products, tale products, baby powder or Shower to Shower, the product manufactured by Johnson & Johnson Consumer Products Inc. and the Shower to Shower for Shower product formerly manufactured by Johnson & Johnson Consumer Products Inc. Do you understand that? A. Yes. Do you understand that? A. Yes. Do you understand that? A. I believe so. I accurate? A. I believe so. Johnson Consumer Products Inc. Do you understand that? A. I believe so. Johnson Consumer Products Inc. So you report, Exhibit 2, and I believe it's complete? A. I believe so. Joy Do you believe it's complete? A. I toovers specific aspects of a larger question, and regarding those specific aspects of the question that you intend to offer opinions on, correct? Johnson Consumer Products for So you will be so your report or in the literature section of your report or in the literature section | | men 1. emp | | |
|--|----|---|----|---|
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| 2 Products, tale products, baby powder or 3 Shower to Shower, I'm referring to the baby 4 powder product manufactured by Johnson & Johnson Consumer Products Inc. and the Shower to Shower product formerly manufactured by Johnson & Johnson Consumer Products Inc. and the Shower to Shower product formerly manufactured by Johnson & Johnson Consumer Products Inc. a Do you understand that? 8 | 1 | Today, when I refer to | 1 | binder of materials; is that right? |
| you prepare that, or was it prepared for you? Johnson Consumer Products Inc. and the Shower to Shower product formerly manufactured by Johnson & Johnson Consumer Products Inc. Do you understand that? A. Yes. Q. Is your report, Exhibit 2, | 2 | | 2 | _ |
| 5 Johnson Consumer Products Inc. and the Shower for to Shower product formerly manufactured by 7 Johnson & Johnson Consumer Products Inc. 8 Do you understand that? 8 A. Yes. 9 A. Yes. 9 Q. Is a your report, Exhibit 2, accurate? 11 with you a stack of eight or so additional references that you have on the table in from of you; is that right? A. In terms of its focus, yes. 14 Q. What do you mean in terms of its focus? 16 its focus? 16 larger question, and regarding those specific aspects, I believe it is complete. 19 Q. It awords that you intend to offer opinions 22 question that you intend to offer opinions 23 A. That is correct. 24 Q. What is the question it ab the habitual use of talcum powder to refer to? 12 A. Not specifically. Q. What do you understand habitual use of talcum powder to refer to? 19 A. Not san extended period of time. 19 A. Not. Q. What is an extended period of time. 19 A. Not. Q. O. Today, in response to the conditional references that you have on the table in from the binder. 20 A. Not. 21 with you a stack of eight or so additional references that you have on the table in from for you; is that right? 4. Yes. Q. In addition, you have brought with you a stack of eight or so additional references that you have on the table in from for you; is that right? A. Yes. Q. Are those materials that were cited either as references in your report or in the literature section of your report? A. It think they're all included in one or the other of those lists. Q. Your testimony under oath is the literature section of your report in the literature section of your report in the literature section of your report or in the literature section of your report? A. It think they're all included in one or the other of those lists. Q. Your testimony under oath is the literature section of your report in the literature section of your report? A. It think they're all included in one or the other of those lists. Q. Your referrece list, which is - begins at your referrece list, which is - begins at your referrece list, w | 3 | Shower to Shower, I'm referring to the baby | 3 | Q. The binder of materials, did |
| 5 Johnson Consumer Products Inc. and the Shower for to Shower product formerly manufactured by 7 Johnson & Johnson Consumer Products Inc. 8 9 A. Yes. 9 10 Q. Is your report, Exhibit 2, 2 11 accurate? 11 2 A. I believe so. 12 12 A. In terms of its focus, yes. 14 13 Q. Do you believe it's complete? 13 14 A. In terms of its focus, yes. 14 15 Q. What do you mean in terms of 15 16 its focus? 16 17 A. It covers specific aspects of a 18 18 larger question, and regarding those specific 20 Q. It avoirs the aspects of the 21 Q. What is the question that was 24 10 given to you by counsel for plaintiffs in 22 11 given to you by counsel for plaintiffs in 23 A. That is correct. 23 A. That is correct. 24 Q. What is the question is do the does 4 the habitual use of talcum powder products 5 cause ovarian cancer. Q. What do you understand habitual use of talcum powder to refer to? 19 A. A. Not specifically. Q. What is an extended period of time. 19 A. Over any period of time? A. No. Q. Any other definition that you have on the table in freferences that you ha | 4 | powder product manufactured by Johnson & | 4 | you prepare that, or was it prepared for you? |
| Solution of Johnson Consumer Products Inc. | 5 | Johnson Consumer Products Inc. and the Shower | 5 | |
| B Do you understand that? 9 A. Yes. 10 Q. Is your report, Exhibit 2, accurate? 11 accurate? 12 A. I believe so. 13 Q. Do you believe it's complete? 14 A. In terms of its focus, yes. 15 Q. What do you mean in terms of 16 its focus? 17 A. It covers specific aspects of a larger question, and regarding those specific aspects, I believe it is complete. 19 aspects, I believe it is complete. 19 aspects, I believe it is complete. 20 Q. It covers the aspects of the question that you intend to offer opinions on, correct? 21 question that you intend to offer opinions 22 on, correct? 23 A. That is correct. 24 Q. What is the question that was 24 In this litigation? 25 Q. Were you given any other questions to answer or opine on in this litigation? 26 A. Not specifically. 27 Q. What do you understand habitual use of talcum powder to refer to? 28 A. Not specifically. 29 A. Not specifically. 30 A. The question is do the does the habitual use of talcum powder to refer to? 31 A. Not specifically. 31 A. Not specifically. 42 Q. What is an extended period of time? 43 A. Over an extended period of time? 44 C. Over any period of time? 45 A. Over an extended period of time. 46 C. Over any period of time? 47 Q. What is an extended period of time. 48 Itime? 49 A. Months or years. 40 A. Months or years. 41 A. Months or years. 42 A. No. 43 A. Months or years. 44 C. Okay. One is the Longo report. 45 A. Okay. One is the Longo report. 46 C. We will mark as 47 A. Oke will mark as 48 Itime? 49 A. Months or years. 40 A. Okay. One is the Longo report. | 6 | to Shower product formerly manufactured by | 6 | |
| 9 Q. Is your report, Exhibit 2, 10 Q. Is your report, Exhibit 2, 11 accurate? 12 A. I believe so. 13 Q. Do you believe it's complete? 14 A. In terms of its focus, yes. 15 Q. What do you mean in terms of its focus? 16 its focus? 17 A. It covers specific aspects of a larger question, and regarding those specific aspects of the question that you intend to offer opinions on correct? 20 Q. It covers the aspects of the question that you intend to offer opinions on correct? 21 Q. What is the question that was 22 on, correct? 23 A. That is correct. 24 Q. What is the question that was 25 Page 27 26 Q. What is the question in this litigation? 27 Q. Were you given any other questions to answer or opine on in this litigation? 28 A. Not specifically. 29 A. Not specifically. 40 Q. Over any period of time? 41 Q. Over any period of time? 42 A. Months or years. 43 A. Months or years. 44 C. Over an extended period of time. 45 C. What is an extended period of time. 46 C. Over any other of those of the mean that was aware that it was coming. And actually, two of them were provided to you by plaintiffs' counsel, and occurrents that were of the table in front of your; is that right? 4 A. The think they're all included in one or the other of those lists. 4 O. Ye testimony under oath is that all of the additional materials you brought here today are referred to either in your referred to either in the literature section of your report? A. It hat all of the additional materials you brought here today are referred to either in your referred to either in yo | 7 | Johnson & Johnson Consumer Products Inc. | 7 | were kind enough to print those for me and |
| 10 Q. Is your report, Exhibit 2, 10 11 12 13 14 15 16 15 16 16 17 17 18 17 18 18 18 18 | 8 | Do you understand that? | 8 | |
| accurate? A. I believe so. Q. Do you believe it's complete? A. In terms of its focus, yes. Q. What do you mean in terms of its focus, yes. A. It covers specific aspects of a larger question, and regarding those specific aspects, I believe it is complete. Q. It covers the aspects of the question that you intend to offer opinions on, correct? A. That is correct. Q. What is the question that was Page 23 A. That is correct. Q. What is the question is do the — does the habitual use of talcum powder to refer to? A. It means routine use, periodic use. Q. What do you understand habitual use of talcum powder to refer to? A. It means routine use, periodic time. Q. What is an extended period of time. Q. What is an extended period of time. Q. What is an extended period of time. Q. Any other definition that you have on habitual use? A. No. Q. Doy ou believe it's complete? 13 | 9 | | 9 | • |
| 12 A. I believe so. 13 Q. Do you believe it's complete? 14 A. In terms of its focus, yes. 15 Q. What do you mean in terms of 16 its focus? 17 A. It covers specific aspects of a 18 larger question, and regarding those specific 19 aspects, I believe it is complete. 20 Q. It covers the aspects of the 21 question that you intend to offer opinions 22 on, correct? 23 A. That is correct. 24 Q. What is the question that was 24 Department of this litigation? 25 Q. Were you given any other 26 Q. Were you given any other 27 questions to answer or opine on in this litigation? 28 Itingation? 29 A. Not specifically. 29 Q. What do you understand habitual use of talcum powder to refer to? 29 Q. What do you understand habitual fine. 20 Q. What is an extended period of time. 21 time. 22 A. No. 23 A. Months or years. 24 Q. What is an extended period of time. 25 Q. What is an extended period of time. 26 Q. What is an extended period of time. 27 Q. What is an extended period of time. 28 A. Months or years. 29 Q. Any other definition that you have of habitual use? 20 Q. Today, in response to the | 10 | Q. Is your report, Exhibit 2, | 10 | |
| 13 Q. Do you believe it's complete? 14 A. In terms of its focus, yes. 15 Q. What do you mean in terms of 16 its focus? 17 A. It covers specific aspects of a 18 larger question, and regarding those specific 19 aspects, I believe it is complete. 20 Q. It covers the aspects of the 21 question that you intend to offer opinions 22 on, correct? 23 A. That is correct. 24 Q. What is the question that was 25 Page 23 26 A. The question is do the – does 27 this litigation? 28 A. The question is do the – does 29 the habitual use of talcum powder products 20 C. Were you given any other questions to answer or opine on in this 29 litigation? 20 Q. What do you understand habitual use of talcum powder to refer to? 21 Q. What do you understand habitual use. 21 Q. What is an extended period of time. 22 A. No. 23 Q. Any other definition that you have of habitual use? 24 Q. We will mark as 25 Q. Were will mark as 26 Q. Were will mark as 27 Page 28 Page 25 28 Exhibit B to your report, or your literature list, which we've marked as Exhibit 4 and is 29 Exhibit B to your report; is that right? 20 Ms. O'DELL: Objection to the form. 31 Go ahead. 32 A. There are a couple of new articles here that were not available at the time that I submitted my report, and I believe the literature list was also created. 30 By MR. ZELLERS: 31 Q. Were those new materials provided to you by plaintiffs' counsel, but I was aware that it was coming. And – actually, two of them were provided by plaintiffs' counsel, but I was aware that it was coming. And – actually, two of them were provided by plaintiffs' counsel, can you show those to me? 32 A. No. 33 A. The question is do the – does 34 the habitual use, and the provided to you by plaintiffs' counsel, can you show those to me? 34 the provided to you by plaintiffs' counsel, can you show those to me? 35 the provided to you by plaintiffs' counsel, can you show those to me? 36 the provided to provided to you by plaintiffs' counsel of them were provided to you by plaintiffs' counsel, can you show those to me? 36 | 11 | accurate? | 11 | |
| A. In terms of its focus, yes. Q. What do you mean in terms of its focus? 16 its focus? 17 A. It covers specific aspects of a larger question, and regarding those specific 18 larger question, and regarding those specific 19 aspects, I believe it is complete. 10 Q. It covers the aspects of the 20 question that you intend to offer opinions on, correct? 21 question that you intend to offer opinions on, correct? 22 on, correct? 23 A. That is correct. 24 Q. What is the question that was 24 list, which we've marked as Exhibit 4 and is 25 page I of your report, or your literature list, which we've marked as Exhibit 4 and is 26 page 23 27 page 23 28 page I of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 10 foy our report; is that right? 20 A. The question is do the does 4 the habitual use of talcum powder products 5 cause ovarian cancer. 20 Q. Were you given any other 6 questions to answer or opine on in this 8 litigation? 21 A. It means routine use, periodic use. 22 A. Over any period of time? 23 A. Months or years. 24 Q. What is an extended period of time? 25 Q. What is an extended period of 17 time? 26 Q. What is an extended period of 18 time? 27 Q. What is an extended period of 19 plaintiffs' counsel, but I was aware that it was coming. And actually, two of them were provided to you by plaintiffs' counsel, but I was aware that it was coming. And actually, two of them were provided to you by plaintiffs' counsel, but I was aware that it was coming. And actually, two of them were provided by plaintiffs' counsel, can you show those to me? 24 A. No. 25 Q. Today, in response to the 26 Q. We will mark as | 12 | | 12 | front of you; is that right? |
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| 16 is focus? A. It covers specific aspects of a larger question, and regarding those specific aspects, I believe it is complete. 9 aspects, I believe it is complete. 19 aspects, I believe it is complete. 10 Q. It covers the aspects of the question that you intend to offer opinions on, correct? 21 question that you intend to offer opinions on, correct? 22 on, correct? 23 A. That is correct. 24 Q. What is the question that was 25 Page 23 26 Exhibit B to your report, or your literature list, which we've marked as Exhibit 4 and is 27 Page 25 28 Exhibit B to your report, is that right? 29 MS. O'DELL: Objection to the form. 30 A. The question is do the does the habitual use of talcum powder products cause ovarian cancer. 40 Q. Were you given any other questions to answer or opine on in this litigation? 41 It use of talcum powder to refer to? 42 A. Not specifically. 43 Q. Over any period of time? 44 Q. Over any period of time? 45 A. Over an extended period of time. 46 Q. What is an extended period of time? 47 Q. What is an extended period of time? 48 Itime? 49 A. Months or years. 40 Q. What is an extended period of time? 41 A. One of them was aware that it was coming. And actually, two of them were provided to you by plaintiffs' counsel, can you show those to me? 40 Q. All right. The two additional materials to one or the other of those lists. 41 Devention that you have of habitual use? 42 D. We will mark as | 14 | | 14 | ` |
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| Q. It covers the aspects of the question that you intend to offer opinions 21 question that you intend to offer opinions 22 on, correct? 22 on, correct? 23 A. That is correct. 23 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 24 list, which we've marked as Exhibit 4 and is 25 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 26 page 12 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 27 page 25 page 12 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 27 page 25 page 12 page 12 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 28 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 28 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 12 page 12 page 12 page 13 page 13 page 13 page 14 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 13 page 14 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 14 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 14 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 14 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is 29 page 12 page 14 of your report, or your literature list, which we've marked as Exhibit and is 20 page 14 of your report, or your literature list, was completed and is 2 | | | | |
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| A. That is correct. Q. What is the question that was Page 23 page 11 of your report, or your literature list, which we've marked as Exhibit 4 and is Page 25 page 27 Exhibit B to your report; is that right? MS. O'DELL: Objection to the form. Go ahead. A. The question is do the does the habitual use of talcum powder products cause ovarian cancer. Q. Were you given any other questions to answer or opine on in this litigation? A. Not specifically. Q. What do you understand habitual use of talcum powder to refer to? A. It means routine use, periodic use. A. Over any period of time? Q. What is an extended period of time. Q. What is an extended period of time? A. Months or years. Q. Any other definition that you the very one of the control of the plantiffs' counsel, but I was aware that it was coming. And actually, two of them were provided to you by plaintiffs' counsel. Q. All right. The two additional documents that were provided to you by plaintiffs' counsel, and occuments that were provided to you by plaintiffs' counsel. Q. All right. The two additional documents that were provided to you by plaintiffs' counsel, can you show those to me? A. No. Q. Today, in response to the | | | | |
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| G. Were you given any other questions to answer or opine on in this litigation? A. Not specifically. Q. What do you understand habitual use of talcum powder to refer to? A. It means routine use, periodic use. A. Over any period of time? A. Over an extended period of time. Q. What is an extended period of time? A. Months or years. Q. Any other definition that you do you have of habitual use? A. No. Q. What were not available at the time that I submitted my report, and I believe the literature list was also created. BY MR. ZELLERS: Q. Were those new materials provided to you by plaintiffs' counsel or are those materials that you did some type of literature search and found? A. One of them was provided to me by plaintiffs' counsel, but I was aware that it was coming. And actually, two of them were provided by plaintiffs' counsel. Q. All right. The two additional documents that were provided to you by plaintiffs' counsel, can you show those to me? A. No. A. Okay. One is the Longo report. Q. We will mark as | 4 | the habitual use of talcum powder products | 4 | Go ahead. |
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| A. Not specifically. Q. What do you understand habitual use of talcum powder to refer to? A. It means routine use, periodic use. Q. Were those new materials provided to you by plaintiffs' counsel or are those materials that you did some type of literature search and found? A. One of them was provided to me by plaintiffs' counsel, but I was aware that time. A. Over an extended period of time? Q. What is an extended period of time? Q. What is an extended period of provided to you by plaintiffs' counsel, but I was aware that time. Q. What is an extended period of provided by plaintiffs' counsel, but I was aware that time? Q. What is an extended period of provided by plaintiffs' counsel, but I was aware that time? Q. All right. The two additional documents that were provided to you by plaintiffs' counsel, can you show those to have of habitual use? A. No. A. Okay. One is the Longo report. Q. We will mark as | 7 | | 7 | |
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| 11 use of talcum powder to refer to? 12 A. It means routine use, periodic 13 use. 14 Q. Over any period of time? 15 A. Over an extended period of 16 time. 17 Q. What is an extended period of 18 time? 19 A. Months or years. 20 Q. Any other definition that you 21 have of habitual use? 22 A. No. 23 Q. Today, in response to the 21 provided to you by plaintiffs' counsel or are 12 those materials that you did some type of 13 literature search and found? 14 A. One of them was provided to me 15 by plaintiffs' counsel, but I was aware that 16 it was coming. And actually, two of them 17 were provided by plaintiffs' counsel. 18 Q. All right. The two additional 19 documents that were provided to you by 20 plaintiffs' counsel, can you show those to 21 me? 22 A. No. 22 A. Okay. One is the Longo report. 23 Q. We will mark as | | 1 * | | |
| 12 A. It means routine use, periodic 13 use. 14 Q. Over any period of time? 15 A. Over an extended period of 16 time. 17 Q. What is an extended period of 18 time? 19 A. Months or years. 20 Q. Any other definition that you 21 have of habitual use? 22 A. No. 23 Q. Today, in response to the 21 those materials that you did some type of 13 literature search and found? 14 A. One of them was provided to me 15 by plaintiffs' counsel, but I was aware that 16 it was coming. And actually, two of them 17 were provided by plaintiffs' counsel. 18 Q. All right. The two additional 19 documents that were provided to you by 20 plaintiffs' counsel, can you show those to 21 me? 22 A. Okay. One is the Longo report. 23 Q. We will mark as | | | | = |
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| Q. Over any period of time? A. Over an extended period of time. 15 | | _ | | • |
| A. Over an extended period of time. 16 time. 17 Q. What is an extended period of time? 18 time? 19 A. Months or years. 20 Q. Any other definition that you have of habitual use? 21 have of habitual use? 22 A. No. 23 Q. Today, in response to the 15 by plaintiffs' counsel, but I was aware that it was coming. And actually, two of them were provided by plaintiffs' counsel. 18 Q. All right. The two additional documents that were provided to you by plaintiffs' counsel, can you show those to me? 24 A. Okay. One is the Longo report. 25 Q. We will mark as | | | | |
| time. Q. What is an extended period of time? A. Months or years. Q. Any other definition that you thave of habitual use? A. No. Q. Today, in response to the 16 it was coming. And actually, two of them were provided by plaintiffs' counsel. Q. All right. The two additional documents that were provided to you by plaintiffs' counsel, can you show those to me? A. Okay. One is the Longo report. Q. We will mark as | | | | |
| 17 Q. What is an extended period of 18 time? 19 A. Months or years. 20 Q. Any other definition that you 21 have of habitual use? 22 A. No. 23 Q. Today, in response to the 21 were provided by plaintiffs' counsel. 28 Q. All right. The two additional 29 documents that were provided to you by 20 plaintiffs' counsel, can you show those to 21 me? 22 A. Okay. One is the Longo report. 23 Q. We will mark as | | - | | |
| 18time?18Q. All right. The two additional19A. Months or years.19documents that were provided to you by20Q. Any other definition that you20plaintiffs' counsel, can you show those to21have of habitual use?21me?22A. No.22A. Okay. One is the Longo report.23Q. Today, in response to the23Q. We will mark as | | | | |
| 19 A. Months or years. 20 Q. Any other definition that you 21 have of habitual use? 22 A. No. 23 Q. Today, in response to the 29 documents that were provided to you by 20 plaintiffs' counsel, can you show those to 21 me? 22 A. Okay. One is the Longo report. 23 Q. We will mark as | | | | |
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| have of habitual use? 21 me? 22 A. No. 23 Q. Today, in response to the 21 me? 22 A. Okay. One is the Longo report. 23 Q. We will mark as | | | | 1 . |
| A. No. 22 A. Okay. One is the Longo report. 22 Q. Today, in response to the 23 Q. We will mark as | | | | |
| Q. Today, in response to the 23 Q. We will mark as | | | | |
| | | | | |
| 24 houce of deposition, you did offing the 24 Deposition Exhibit 3 the Longo report dated | | | | • |
| | ∠4 | nonce of deposition, you aid offing the | 4 | Deposition Exhibit 5 the Longo report dated |

| | | 1 | |
|--|---|---|--|
| | Page 26 | | Page 28 |
| 1 | January 15th of 2009 [sic]. | 1 | Ph.D.; is that right? |
| 2 | (Carson Deposition Exhibit 5 | 2 | A. Yes. |
| 3 | marked.) | 3 | Q. What additional articles have |
| 4 | A. The other is the recent | 4 | you brought here with you today separate and |
| 5 | Fletcher, et al article. | 5 | apart from your binder of materials? |
| 6 | (Carson Deposition Exhibit 6 | 6 | A. There's a copy of the IARC |
| 7 | marked.) | 7 | monographs preamble. |
| 8 | BY MR. ZELLERS: | 8 | Q. For what purpose did you bring |
| 9 | Q. The Fletcher article dated | 9 | that article? |
| 10 | January 3rd of 2019 we'll mark as Exhibit 6. | 10 | A. This discusses the general |
| 11 | This is an article from Reproductive | 11 | process that IARC uses in approaching a |
| 12 | Sciences; is that right? | 12 | putative carcinogenic material. |
| 13 | A. Yes. And I actually have a | 13 | Q. That has previously been marked |
| 14 | third. | 14 | as Plaintiff Exhibit P-346 in another |
| 15 | Q. All right. You have a third | 15 | proceeding; is that right? |
| 16 | article that was provided to you by | 16 | A. I don't know. |
| 17 | plaintiffs' counsel? | 17 | Q. Well, the document we're |
| 18 | A. Yes. | 18 | looking at has that exhibit sticker on it; is |
| 19 | (Carson Deposition Exhibit 7 | 19 | that right? |
| 20 | marked.) | 20 | A. It does. |
| 21 | BY MR. ZELLERS: | 21 | Q. What else have you brought here |
| 22 | Q. Let's mark that as | 22 | with you today? |
| 23 | Deposition Exhibit 7. Can you tell us what | 23 | A. This is an article from |
| 24 | article that is? | 24 | The Lancet from 1952 titled Value of Modified |
| | | | |
| | Page 27 | | Page 29 |
| 1 | A. This is a meta-analysis. | 1 | Starch as a Substitute for Talc, and the |
| 2 | It's the title is Systematic Review and | 1 ^ | a |
| | 3 | 2 | first author is J.D.P. Graham. |
| 3 | Meta-Analysis of the Association Between | 3 | first author is J.D.P. Graham. Q. Why did you bring that article? |
| 3 4 | | | |
| | Meta-Analysis of the Association Between | 3 | Q. Why did you bring that article? |
| 4 | Meta-Analysis of the Association Between Perineal Use of Talc and Risk of Ovarian | 3 4 | Q. Why did you bring that article?A. This is an older article that |
| 4 5 | Meta-Analysis of the Association Between Perineal Use of Talc and Risk of Ovarian Cancer. The lead author is Mohamed Taher. Q. The Taher paper we have marked as Exhibit 7; is that right? | 3 4 5 | Q. Why did you bring that article?A. This is an older article that discusses the suitability of substituting |
| 4 5 6 7 8 | Meta-Analysis of the Association Between Perineal Use of Talc and Risk of Ovarian Cancer. The lead author is Mohamed Taher. Q. The Taher paper we have marked as Exhibit 7; is that right? A. Yes. | 3 4 5 6 | Q. Why did you bring that article? A. This is an older article that discusses the suitability of substituting cornstarch materials for talc due to perceived issues with talc. Q. Is this an article that you had |
| 4 5 6 7 8 9 | Meta-Analysis of the Association Between Perineal Use of Talc and Risk of Ovarian Cancer. The lead author is Mohamed Taher. Q. The Taher paper we have marked as Exhibit 7; is that right? A. Yes. Q. This is something that you were | 3 4 5 6 7 8 9 | Q. Why did you bring that article? A. This is an older article that discusses the suitability of substituting cornstarch materials for talc due to perceived issues with talc. Q. Is this an article that you had cited previously, either in your references |
| 4 5 6 7 8 | Meta-Analysis of the Association Between Perineal Use of Talc and Risk of Ovarian Cancer. The lead author is Mohamed Taher. Q. The Taher paper we have marked as Exhibit 7; is that right? A. Yes. | 3 4 5 6 7 8 9 | Q. Why did you bring that article? A. This is an older article that discusses the suitability of substituting cornstarch materials for talc due to perceived issues with talc. Q. Is this an article that you had cited previously, either in your references or your list of literature? |
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| 4 5 6 7 8 9 10 | Meta-Analysis of the Association Between Perineal Use of Talc and Risk of Ovarian Cancer. The lead author is Mohamed Taher. Q. The Taher paper we have marked as Exhibit 7; is that right? A. Yes. Q. This is something that you were provided by plaintiffs' counsel; is that right? A. Yes. Q. Exhibit 6, Reproductive | 3 4 5 6 7 8 9 10 | Q. Why did you bring that article? A. This is an older article that discusses the suitability of substituting cornstarch materials for talc due to perceived issues with talc. Q. Is this an article that you had cited previously, either in your references or your list of literature? A. I did not cite it in my report. |
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| | Page 30 | | Page 32 |
|--|---|--|--|
| 1 | binder of materials? | 1 | talcum powder and ovarian cancer, is |
| 2 | A. I have here a copy of the | 2 | something that you undertook when you were |
| 3 | recent Canadian position on the safety of | 3 | retained by plaintiffs' counsel and asked to |
| 4 | talcum powder and its relationship to ovarian | 4 | address the question they gave to you? |
| 5 | cancer. | 5 | A. Yes, it is. |
| 6 | Q. When did you review that | 6 | Q. We will mark the article by |
| 7 | document? | 7 | Blount as Exhibit 11. |
| 8 | A. A couple weeks ago, I think. | 8 | (Carson Deposition Exhibit 11 |
| 9 | Q. Is that a document that you | 9 | marked.) |
| 10 | were provided by plaintiffs' counsel? | 10 | BY MR. ZELLERS: |
| 11 | A. It was. | 11 | Q. And you have one more; is that |
| 12 | | 12 | right? |
| 13 | * | | • |
| | We'll mark the draft screening assessment | 13 | A. Yes, one more, which is this |
| 14 | from Health Canada dated December 18th of | 14 | is an article from the American Journal of |
| 15 | 2018 as Exhibit 9. | 15 | Obstetrics and Gynecology from 1974 titled |
| 16 | (Carson Deposition Exhibit 9 | 16 | The Ovarian Mesothelioma. It's authored by |
| 17 | marked.) | 17 | Parmley and Woodruff. |
| 18 | BY MR. ZELLERS: | 18 | Q. We'll mark that as Exhibit 12. |
| 19 | Q. Any other documents? | 19 | (Carson Deposition Exhibit 12 |
| 20 | A. I have a copy of the letter | 20 | marked.) |
| 21 | from the FDA from April 1st, 2014 responding | 21 | BY MR. ZELLERS: |
| 22 | to positions petitions for labeling. | 22 | Q. Exhibit 12, is this an article |
| 23 | Q. This is a letter that has a | 23 | that was cited previously by you in either |
| 24 | stamp on it on the first page, April 1st, | 24 | your references or your literature list? |
| | | | |
| | Page 31 | | Page 33 |
| 1 | Page 31 2014, from or strike that to | 1 | Page 33 A. Yes. |
| 1 2 | | 1 2 | |
| | 2014, from or strike that to | | A. Yes.Q. For what strike that. |
| 2 | 2014, from or strike that to Dr. Epstein from the FDA; is that right? | 2 | A. Yes.Q. For what strike that.Is this a document that you |
| 2 | 2014, from or strike that to Dr. Epstein from the FDA; is that right? A. Yes. Q. Let's mark that as Exhibit 10. | 2 | A. Yes. Q. For what strike that. Is this a document that you chose to bring today or were you provided it |
| 2 3 4 | 2014, from or strike that to Dr. Epstein from the FDA; is that right? A. Yes. Q. Let's mark that as Exhibit 10. (Carson Deposition Exhibit 10 | 2 3 4 | A. Yes. Q. For what strike that. Is this a document that you chose to bring today or were you provided it by plaintiffs' counsel? |
| 2 3 4 5 | 2014, from or strike that to Dr. Epstein from the FDA; is that right? A. Yes. Q. Let's mark that as Exhibit 10. (Carson Deposition Exhibit 10 marked.) | 2 3 4 5 | A. Yes. Q. For what strike that. Is this a document that you chose to bring today or were you provided it by plaintiffs' counsel? A. This is another one I ran |
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| 2 3 4 5 6 7 8 | 2014, from or strike that to Dr. Epstein from the FDA; is that right? A. Yes. Q. Let's mark that as Exhibit 10. (Carson Deposition Exhibit 10 marked.) BY MR. ZELLERS: Q. What else? | 2 3 4 5 6 7 8 | A. Yes. Q. For what strike that. Is this a document that you chose to bring today or were you provided it by plaintiffs' counsel? A. This is another one I ran across last night and decided to bring along to the depo. |
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| | Page 34 | | Page 36 |
|--|---|--|---|
| 1 | brought here with you today are documents | 1 | wouldn't be able to tell you for sure. I'm |
| 2 | that you wanted to have available to try to | 2 | sure I ran across these in my own literature |
| 3 | respond to the questions that I may ask you? | 3 | search. |
| 4 | A. Yes. | 4 | Q. Deposition Exhibit 13, we will |
| 5 | Q. These documents you all | 5 | mark the thumb drive that plaintiffs' counsel |
| 6 | believe strike that. | 6 | has brought here today. |
| 7 | The documents that you've | 7 | (Carson Deposition Exhibit 13 |
| 8 | identified and you've brought with you | 8 | marked.) |
| 9 | have brought with you today, you believe | 9 | BY MR. ZELLERS: |
| 10 | those are supportive of the opinions that you | 10 | Q. Do you, Dr. Carson, have an |
| 11 | are rendering in this matter; is that right? | 11 | understanding of what's on the thumb drive |
| 12 | A. Yes. | 12 | we've marked as Exhibit 13? |
| 13 | Q. The documents on your | 13 | A. My understanding is this is |
| 14 | literature list, what we have marked as | 14 | copies of the documents on the literature |
| 15 | Exhibit 4, are those documents that were | 15 | list. |
| 16 | provided to you by plaintiffs' counsel? | 16 | Q. When were you first retained by |
| 17 | A. Some were. | 17 | anyone regarding the talc/ovarian cancer |
| 18 | O. The documents on this list that | 18 | litigation? |
| 19 | were not provided by plaintiffs' counsel, did | 19 | A. In October of 2018. |
| 20 | you find those through a literature search? | 20 | Q. Who contacted you? |
| 21 | A. Yes. | 21 | A. I was contacted by an attorney |
| 22 | Q. Are you able to distinguish for | 22 | named Russ Abney. |
| 23 | us which documents on your literature list, | 23 | Q. Who is Mr. Abney, if you know? |
| 24 | Exhibit 4, came from plaintiffs' counsel and | 24 | A. Mr. Abney is a lawyer who used |
| 21 | Exhibit 4, came from plainting counsel and | 21 | A. Mil. Aolicy is a lawyer who used |
| | | | |
| | Page 35 | | Page 37 |
| 1 | Page 35 which items on the literature list you came | 1 | Page 37 to work in the Houston area and with whom I |
| 2 | | 1 2 | to work in the Houston area and with whom I had some dealings years ago; and since that |
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| | D 20 | | D 10 |
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| | Page 38 | | Page 40 |
| 1 | Q. Mr. Abney at some point asked | 1 | doing a review? What does that mean? |
| 2 | you to address the question that you told us | 2 | A. Well, I felt that I was hired |
| 3 | before: Does the habitual use of talcum | 3 | as a witness at that point and that's when I |
| 4 | powder cause ovarian cancer? | 4 | would begin my billable hours on this case. |
| 5 | Is that right? | 5 | Q. When was that? Sometime in |
| 6 | MS. O'DELL: Object to the | 6 | later October of late October of 2018? |
| 7 | form. | 7 | A. It was within a few days after |
| 8 | A. Well, he talked to me generally | 8 | our first meeting, still in October. |
| 9 | about the case that was proceeding, and I | 9 | Q. What did you do to answer the |
| 10 | discussed with him what my understanding of | 10 | question? What was your methodology? |
| 11 | those things was and what the kind of | 11 | A. Well, initially I decided to do |
| 12 | opinions I would be able to render would be. | 12 | a general literature search on the question |
| 13 | And he suggested that he set up a meeting | 13 | to see what research had been performed, what |
| 14 | between me and members of plaintiffs' | 14 | reports had been written, what the quality of |
| 15 16 | counsel. BY MR. ZELLERS: | 15 | that research was. |
| 16 17 | | 16 17 | Q. When did you start that? |
| 18 | Q. When Mr. Abney called you middle of October of 2018, talcum powder and | 18 | A. Immediately. I was curious. I began to assemble the |
| 19 | any relationship or association that it may | 19 | available literature and review it on a |
| 20 | have to ovarian cancer had not been a focus | 20 | piecemeal basis through the subsequent time |
| 21 | of your research or study; is that right? | 21 | period; the next couple of weeks I reviewed a |
| 22 | A. That's right. | 22 | lot of it. |
| 23 | Q. It had not been a part of your | 23 | Q. What did you search for when |
| 24 | clinical practice, right? | 24 | you did this general literature search? |
| 24 | chinear practice, right: | 24 | you did this general incrature scaren: |
| | Page 39 | | |
| | rage 39 | | Page 41 |
| 1 | A. That's correct. | 1 | Page 41 A. I searched under various search |
| 1 2 | | 1 2 | |
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| 2 | A. That's correct.Q. When did you meet with the larger group of plaintiffs' counsel?A. I believe we had a telephone | 2 | A. I searched under various search terms, including "talc," including "ovarian cancer," the relationship between the two. As I became more familiar with the |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | A. That's correct. Q. When did you meet with the larger group of plaintiffs' counsel? A. I believe we had a telephone meeting on the 16th of October. I'm not sure. I have to Q. That's right now I just want estimates. A. Okay. Q. And so I don't as long as you're reasonably comfortable that it was in that time frame. A. It was mid October. Q. That's fine. When were you asked the question that the plaintiffs' lawyers wanted you to try to answer in this litigation? A. Well, after the meeting we parted ways and then made contact again a few days later, and I was told that they were interested in me going ahead and doing a review and starting to establish opinions. | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | A. I searched under various search terms, including "talc," including "ovarian cancer," the relationship between the two. As I became more familiar with the literature, I expanded that search into other topics. As I became I was already aware of issues related to the inclusion of asbestos in talc deposits, and so I expanded my search into that part of the literature that relates to asbestos in talc or asbestos in ovarian cancer. As I felt my opinions would need to extend into cancer and carcinogenesis in general, I did some search into ovarian cancer specifically and general carcinogenesis to see what the current state of the art was regarding that in the literature. I looked at some issues of mining practices. I looked at the Johnson & |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | A. That's correct. Q. When did you meet with the larger group of plaintiffs' counsel? A. I believe we had a telephone meeting on the 16th of October. I'm not sure. I have to Q. That's right now I just want estimates. A. Okay. Q. And so I don't as long as you're reasonably comfortable that it was in that time frame. A. It was mid October. Q. That's fine. When were you asked the question that the plaintiffs' lawyers wanted you to try to answer in this litigation? A. Well, after the meeting we parted ways and then made contact again a few days later, and I was told that they were interested in me going ahead and doing a | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | A. I searched under various search terms, including "talc," including "ovarian cancer," the relationship between the two. As I became more familiar with the literature, I expanded that search into other topics. As I became I was already aware of issues related to the inclusion of asbestos in talc deposits, and so I expanded my search into that part of the literature that relates to asbestos in talc or asbestos in ovarian cancer. As I felt my opinions would need to extend into cancer and carcinogenesis in general, I did some search into ovarian cancer specifically and general carcinogenesis to see what the current state of the art was regarding that in the literature. I looked at some issues of mining practices. |

| | Page 42 | | Page 44 |
|--|---|--|---|
| 1 | I looked through old notes and | 1 | review of draft versions of my report and |
| 2 | lecture files that I had for information that | 2 | comments, in particular |
| 3 | I've used or accessed previously in my | 3 | Q. Don't tell me about the |
| 4 | professional capacity for information that | 4 | comments. |
| 5 | was pertinent. | 5 | A. Okay. |
| 6 | Just a very dendritic kind of | 6 | Q. I don't want to know what the |
| 7 | extensive search. | 7 | lawyers may have told you. |
| 8 | Q. You reviewed these materials | 8 | Did the comments come from the |
| 9 | that you have told us about and then did you | 9 | lawyers for plaintiffs or did they come from |
| 10 | prepare your report? | 10 | other people? |
| 11 | A. At that point I well, the | 11 | A. They came from the lawyers. |
| 12 | literature review took several stages. | 12 | They also came from a few of my colleagues. |
| 13 | Typically when you perform a review like | 13 | Q. Did you share your report with |
| 14 | this, you end up with a I do a very | 14 | some of your colleagues? |
| 15 | general sort of approach to a review, so I | 15 | A. I let a few people read it and |
| 16 | get much more than will be pertinent to my | 16 | I talked to them about it. |
| 17 | review eventually. | 17 | Q. Are the opinions your opinions? |
| 18 | I find that a valuable approach | 18 | A. Yes, they are. |
| 19 | because it allows me to find things I | 19 | Q. Have you told me, you know, |
| 20 | wouldn't otherwise find or look for or know | 20 | generally what you have done to formulate |
| 21 | to look for. | 21 | your opinions in this matter? |
| 22 | And then I'm able to cull | 22 | A. Yes, I think so. |
| 23 | through that information and discard pieces | 23 | Q. You did all of this over a |
| 24 | of the search materials that are not relevant | 24 | 30-day period; is that right? |
| 21 | of the scarch materials that are not relevant | 21 | 50-day period, is that right: |
| | | | |
| | Page 43 | | Page 45 |
| 1 | | 1 | Page 45 A. Yes. |
| 1 2 | Page 43 or interesting to me and then refine my search and redo it, extending it into | 1 2 | A. Yes. |
| | or interesting to me and then refine my | | A. Yes. |
| 2 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become | 2 | A. Yes. Q. All right. You have no |
| 2 3 | or interesting to me and then refine my search and redo it, extending it into | 2 3 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. |
| 2 3 4 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become pertinent in my opinion, until I satisfy | 2 3 4 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. |
| 2 3 4 5 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become pertinent in my opinion, until I satisfy myself that I have pretty much covered the | 2 3 4 5 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. Q. Is it typical that you'll work |
| 2 3 4 5 6 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become pertinent in my opinion, until I satisfy myself that I have pretty much covered the waterfront so to speak in terms of a literature review. | 2 3 4 5 6 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. Q. Is it typical that you'll work on a matter for some number of months and not generate any invoices? |
| 2 3 4 5 6 7 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become pertinent in my opinion, until I satisfy myself that I have pretty much covered the waterfront so to speak in terms of a | 2 3 4 5 6 7 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. Q. Is it typical that you'll work on a matter for some number of months and not |
| 2 3 4 5 6 7 8 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become pertinent in my opinion, until I satisfy myself that I have pretty much covered the waterfront so to speak in terms of a literature review. Q. You did your literature review. | 2 3 4 5 6 7 8 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. Q. Is it typical that you'll work on a matter for some number of months and not generate any invoices? A. Yes. |
| 2 3 4 5 6 7 8 9 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become pertinent in my opinion, until I satisfy myself that I have pretty much covered the waterfront so to speak in terms of a literature review. Q. You did your literature review. You reviewed the Johnson & Johnson website | 2 3 4 5 6 7 8 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. Q. Is it typical that you'll work on a matter for some number of months and not generate any invoices? A. Yes. Q. You are billing your time at |
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| 2 3 4 5 6 7 8 9 10 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become pertinent in my opinion, until I satisfy myself that I have pretty much covered the waterfront so to speak in terms of a literature review. Q. You did your literature review. You reviewed the Johnson & Johnson website and the other materials that you have told us about. | 2 3 4 5 6 7 8 9 10 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. Q. Is it typical that you'll work on a matter for some number of months and not generate any invoices? A. Yes. Q. You are billing your time at what rate? A. \$450 per hour. |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become pertinent in my opinion, until I satisfy myself that I have pretty much covered the waterfront so to speak in terms of a literature review. Q. You did your literature review. You reviewed the Johnson & Johnson website and the other materials that you have told us about. Did you then formulate your opinions and set them down in your report which we marked as Exhibit 2? A. I did. I began writing as I reviewed the literature and continued to take notes which, through a continuous editing process, eventually became my report. | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. Q. Is it typical that you'll work on a matter for some number of months and not generate any invoices? A. Yes. Q. You are billing your time at what rate? A. \$450 per hour. Q. Can you estimate for us the number of hours that you have spent doing your literature review, formulating your opinions, and writing your report? A. There's still some tallying I need to do from my calendar, but it's between 150 and 180 hours. Q. Does that include your meetings |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become pertinent in my opinion, until I satisfy myself that I have pretty much covered the waterfront so to speak in terms of a literature review. Q. You did your literature review. You reviewed the Johnson & Johnson website and the other materials that you have told us about. Did you then formulate your opinions and set them down in your report which we marked as Exhibit 2? A. I did. I began writing as I reviewed the literature and continued to take notes which, through a continuous editing process, eventually became my report. Q. Did you prepare your report? A. I did. Q. Did anyone assist you in the | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. Q. Is it typical that you'll work on a matter for some number of months and not generate any invoices? A. Yes. Q. You are billing your time at what rate? A. \$450 per hour. Q. Can you estimate for us the number of hours that you have spent doing your literature review, formulating your opinions, and writing your report? A. There's still some tallying I need to do from my calendar, but it's between 150 and 180 hours. Q. Does that include your meetings and communications with plaintiffs' counsel? A. Yes, that's up until today. Q. Other than meeting with |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | or interesting to me and then refine my search and redo it, extending it into different areas that have now become pertinent in my opinion, until I satisfy myself that I have pretty much covered the waterfront so to speak in terms of a literature review. Q. You did your literature review. You reviewed the Johnson & Johnson website and the other materials that you have told us about. Did you then formulate your opinions and set them down in your report which we marked as Exhibit 2? A. I did. I began writing as I reviewed the literature and continued to take notes which, through a continuous editing process, eventually became my report. Q. Did you prepare your report? A. I did. Q. Did anyone assist you in the preparation of your report? | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | A. Yes. Q. All right. You have no invoices, correct? A. That's correct. Q. Is it typical that you'll work on a matter for some number of months and not generate any invoices? A. Yes. Q. You are billing your time at what rate? A. \$450 per hour. Q. Can you estimate for us the number of hours that you have spent doing your literature review, formulating your opinions, and writing your report? A. There's still some tallying I need to do from my calendar, but it's between 150 and 180 hours. Q. Does that include your meetings and communications with plaintiffs' counsel? A. Yes, that's up until today. |

| | Page 46 | | Page 48 |
|----------------------------------|--|----------------------|--|
| 1 | A. No. | 1 | A. I have not had any discussions |
| 2 | Q. What other plaintiff lawyers | 2 | with Dr. Dydek. We may have met previously, |
| 3 | have you met with or talked with as part of | 3 | but I don't recall. |
| 4 | your formulating your opinions and doing your | 4 | Q. Any previous meeting with |
| 5 | literature review? | 5 | Dr. Dydek, did it relate to this litigation? |
| 6 | A. We've had a number of | 6 | A. No. |
| 7 | conference calls where there were several of | 7 | Q. Did it relate to expert witness |
| 8 | these attorneys' colleagues on the line, but | 8 | work that you were doing? |
| 9 | in terms of in-person meetings, those have | 9 | A. No. |
| 10 | been with Ms. O'Dell and Ms. Thompson, | 10 | Q. Do you know what the |
| 11 | Dr. Thompson. | 11 | relationship is, if any, between Dr. Thompson |
| 12 | Q. How many meetings have you had | 12 | and Dr. Dydek? |
| 13 | with Ms. O'Dell? | 13 | A. I don't know of any |
| 14 | A. Three. | 14 | relationship outside of his work as an expert |
| 15 | Q. How many meetings have you had | 15 | witness in related litigation. |
| 16 | with Dr. Thompson? | 16 | Q. Dr. Crowley, do you know |
| 17 | A. Three. | 17 | Michael Crowley? |
| 18 | Q. Did you know Dr. Thompson | 18 | A. I know of Dr. Crowley. |
| 19 | | 19 | • |
| | before you were retained in this matter? A. I did not. | 20 | Q. Did you know of Dr. Crowley before you were retained in the talcum powder |
| 20 | | | |
| 21 | Q. Any other plaintiff lawyers in | 21 | litigation? |
| 22 | this litigation that you are aware of | 22 | A. No. |
| 23 | strike that. | 23 | Q. Have you ever met with |
| 24 | Any other plaintiff lawyers in | 24 | Dr. Crowley? |
| | Page 47 | | Page 49 |
| 1 | this matter that you've had communications | 1 | A. I have not. |
| 2 | with other than what you have told us? | 2 | Q. Ever talked with Dr. Crowley? |
| 3 | A. No. | 3 | A. I have not. |
| 4 | Q. Do you have any social | 4 | Q. You reviewed his report as part |
| 5 | relationship with any of the plaintiffs' | 5 | of your review in this matter; is that right? |
| 6 | counsel? | 6 | A. That's correct. |
| 7 | A. No. | 7 | Q. Do you know who any of the |
| 8 | Q. Your relationship with | 8 | other experts are in this litigation for |
| 9 | Dr. Thompson is just the three meetings that | 9 | plaintiffs? |
| 10 | you have been involved in with her? | 10 | A. Well, I know there are a number |
| 11 | A. Well, we've exchanged e-mail | 11 | of people who have generated reports that I |
| 12 | communications, but other than that, no. | 12 | have also reviewed. |
| 13 | Q. Have you met with or talked | 13 | Q. What reports have you reviewed |
| 14 | with any other expert witness for plaintiffs? | 14 | from plaintiffs' other experts? |
| 15 | A. No, I have not. | 15 | A. Well, I've reviewed several |
| - | Q. Do you know who Thomas Dydek | 16 | reports from Dr. Longo, who's done work on |
| 16 | is? | 17 | the presence of asbestos in talc products and |
| 16 17 | IS? | | related things. I think he's the only other |
| 17 | | 1 18 | |
| 17 18 | A. Yes. | 18 19 | |
| 17 18 19 | A. Yes.Q. Who is Thomas Dydek? | 19 | expert that I'm aware of at this point. |
| 17 18 19 20 | A. Yes.Q. Who is Thomas Dydek?A. He is a toxicologist. | 19 20 | expert that I'm aware of at this point. Q. Well, you're aware of |
| 17 18 19 20 21 | A. Yes.Q. Who is Thomas Dydek?A. He is a toxicologist.Q. Where does he practice? | 19 20 21 | expert that I'm aware of at this point. Q. Well, you're aware of Dr. Crowley? |
| 17 18 19 20 21 22 | A. Yes.Q. Who is Thomas Dydek?A. He is a toxicologist.Q. Where does he practice?A. I don't recall. | 19 20 21 22 | expert that I'm aware of at this point. Q. Well, you're aware of Dr. Crowley? A. Well, Dr. Crowley, Dr. Longo, |
| 17 18 19 20 21 | A. Yes.Q. Who is Thomas Dydek?A. He is a toxicologist.Q. Where does he practice? | 19 20 21 | expert that I'm aware of at this point. Q. Well, you're aware of Dr. Crowley? |

| | Page 50 | | Page 52 |
|--|--|--|--|
| 1 | or transcripts from Dr. Dydek? | 1 | that you're aware of? |
| 2 | A. Yes, I reviewed an expert | 2 | A. No. |
| 3 | report that he provided before I got involved | 3 | Q. Are you aware of any of the |
| 4 | in this case. | 4 | experts for defendants in the talcum powder |
| 5 | Q. Did you review that report | 5 | litigation? |
| 6 | before you prepared your report? | 6 | A. No. |
| 7 | A. Yes. | 7 | Q. Have you reviewed any reports |
| 8 | Q. Did you review Dr. Crowley's | 8 | from any of the experts in the talcum powder |
| 9 | report before you prepared your report? | 9 | litigation? |
| 10 | A. Yes. | 10 | A. I have not. |
| 11 | Q. And you reviewed Dr. Longo's | 11 | Q. Have you reviewed any of the |
| 12 | report before you prepared your report; is | 12 | transcripts of defense experts in the talcum |
| 13 | that right? | 13 | powder litigation? |
| 14 | A. I've reviewed one report. | 14 | |
| 15 | There was another one that became available | 15 | A. I've reviewed some deposition transcripts of various witnesses. |
| 16 | after. | 16 | - |
| 17 | | 1 | * |
| | Q. The second report is what you | 17 | in either your references or your literature; |
| 18 | brought here with you today and we marked as | 18 | is that right? |
| 19 | Exhibit 5; is that right? | 19 | A. Yes. |
| 20 | A. Yes. | 20 | Q. Did you review the entire |
| 21 | Q. Any other plaintiff experts | 21 | transcripts of the witnesses that you've |
| 22 | that you're aware of? | 22 | identified? |
| 23 | A. Not that I can think of, no. | 23 | A. I think for the most part I |
| 24 | Q. Any other reports from | 24 | would say yes. |
| | Page 51 | | Page 53 |
| 1 | plaintiffs' experts that you have reviewed? | 1 | Q. Did you review the exhibits to |
| 2 | A. Well, there's a there is an | 2 | those depositions? |
| 3 | article that's been submitted for publication | 3 | A. Yes. If they were provided to |
| 4 | which I consider a piece of the scientific | 4 | me, I did, yes. |
| 5 | literature. You mentioned Dr. Saed earlier, | 5 | Q. Did you believe that it was |
| 6 | and I know that he has a relationship with | 6 | your job to do an independent assessment as |
| 7 | this case as well. | 7 | to whether or not the habitual use of talcum |
| 8 | Q. What is his relationship with | 8 | powder causes or can cause ovarian cancer? |
| 9 | this case, Dr. Saed? | 9 | MS. O'DELL: Object to the |
| - | | | MB. O BEEE. Object to the |
| 10 | A. He's provided some work at the | 10 | form. |
| | | 10 11 | • |
| 10 | A. He's provided some work at the | | form. |
| 10 11 | A. He's provided some work at the request of the attorneys here. | 11 | form. A. Could you repeat the question, |
| 10 11 12 | A. He's provided some work at the request of the attorneys here.Q. Have you reviewed that work? | 11 12 | form. A. Could you repeat the question, please. |
| 10 11 12 13 | A. He's provided some work at the request of the attorneys here. Q. Have you reviewed that work? A. That's the subject of several articles he's published previously, he and | 11 12 13 | form. A. Could you repeat the question, please. BY MR. ZELLERS: |
| 10 11 12 13 14 | A. He's provided some work at the request of the attorneys here. Q. Have you reviewed that work? A. That's the subject of several articles he's published previously, he and his colleagues, as well as the additional one | 11 12 13 14 | form. A. Could you repeat the question, please. BY MR. ZELLERS: Q. Sure. |
| 10 11 12 13 14 15 | A. He's provided some work at the request of the attorneys here. Q. Have you reviewed that work? A. That's the subject of several articles he's published previously, he and his colleagues, as well as the additional one that I brought today. | 11 12 13 14 15 | form. A. Could you repeat the question, please. BY MR. ZELLERS: Q. Sure. Plaintiffs asked you to strike that. |
| 10 11 12 13 14 15 | A. He's provided some work at the request of the attorneys here. Q. Have you reviewed that work? A. That's the subject of several articles he's published previously, he and his colleagues, as well as the additional one that I brought today. Q. Other than the articles that | 11 12 13 14 15 16 | form. A. Could you repeat the question, please. BY MR. ZELLERS: Q. Sure. Plaintiffs asked you to strike that. Plaintiffs' counsel asked you |
| 10 11 12 13 14 15 16 17 | A. He's provided some work at the request of the attorneys here. Q. Have you reviewed that work? A. That's the subject of several articles he's published previously, he and his colleagues, as well as the additional one that I brought today. Q. Other than the articles that you have listed on your reference and | 11 12 13 14 15 16 17 | form. A. Could you repeat the question, please. BY MR. ZELLERS: Q. Sure. Plaintiffs asked you to strike that. Plaintiffs' counsel asked you to answer that question; is that right? |
| 10 11 12 13 14 15 16 17 18 | A. He's provided some work at the request of the attorneys here. Q. Have you reviewed that work? A. That's the subject of several articles he's published previously, he and his colleagues, as well as the additional one that I brought today. Q. Other than the articles that you have listed on your reference and literature list and the Saed article that you | 11 12 13 14 15 16 17 18 | form. A. Could you repeat the question, please. BY MR. ZELLERS: Q. Sure. Plaintiffs asked you tostrike that. Plaintiffs' counsel asked you to answer that question; is that right? A. Yes. |
| 10 11 12 13 14 15 16 17 18 19 | A. He's provided some work at the request of the attorneys here. Q. Have you reviewed that work? A. That's the subject of several articles he's published previously, he and his colleagues, as well as the additional one that I brought today. Q. Other than the articles that you have listed on your reference and literature list and the Saed article that you brought with you today, are you aware of any | 11 12 13 14 15 16 17 18 19 20 | form. A. Could you repeat the question, please. BY MR. ZELLERS: Q. Sure. Plaintiffs asked you tostrike that. Plaintiffs' counsel asked you to answer that question; is that right? A. Yes. Q. You understood that they were |
| 10 11 12 13 14 15 16 17 18 19 20 21 | A. He's provided some work at the request of the attorneys here. Q. Have you reviewed that work? A. That's the subject of several articles he's published previously, he and his colleagues, as well as the additional one that I brought today. Q. Other than the articles that you have listed on your reference and literature list and the Saed article that you brought with you today, are you aware of any other work that Dr. Saed has done in this | 11 12 13 14 15 16 17 18 19 20 21 | form. A. Could you repeat the question, please. BY MR. ZELLERS: Q. Sure. Plaintiffs asked you tostrike that. Plaintiffs' counsel asked you to answer that question; is that right? A. Yes. Q. You understood that they were looking to develop an association or a causal |
| 10 11 12 13 14 15 16 17 18 19 | A. He's provided some work at the request of the attorneys here. Q. Have you reviewed that work? A. That's the subject of several articles he's published previously, he and his colleagues, as well as the additional one that I brought today. Q. Other than the articles that you have listed on your reference and literature list and the Saed article that you brought with you today, are you aware of any other work that Dr. Saed has done in this matter? | 11 12 13 14 15 16 17 18 19 20 21 22 | form. A. Could you repeat the question, please. BY MR. ZELLERS: Q. Sure. Plaintiffs asked you tostrike that. Plaintiffs' counsel asked you to answer that question; is that right? A. Yes. Q. You understood that they were looking to develop an association or a causal relationship between the habitual use of |
| 10 11 12 13 14 15 16 17 18 19 20 21 | A. He's provided some work at the request of the attorneys here. Q. Have you reviewed that work? A. That's the subject of several articles he's published previously, he and his colleagues, as well as the additional one that I brought today. Q. Other than the articles that you have listed on your reference and literature list and the Saed article that you brought with you today, are you aware of any other work that Dr. Saed has done in this matter? | 11 12 13 14 15 16 17 18 19 20 21 | form. A. Could you repeat the question, please. BY MR. ZELLERS: Q. Sure. Plaintiffs asked you tostrike that. Plaintiffs' counsel asked you to answer that question; is that right? A. Yes. Q. You understood that they were looking to develop an association or a causal |

| 1 2 | D- 010 - E-4 | | Dama FC |
|--|--|--|---|
| | Page 54 | _ | Page 56 |
| 1 2 | MS. O'DELL: Object to the | 1 | A. Probably 5%. |
| | form. | 2 | Q. What percent of your income |
| 3 | Excuse me, I'm sorry, | 3 | comes from the work that you do as a |
| 4 | gentlemen. Give me just one second to | 4 | consultant? |
| 5 | object if I need to. | 5 | A. Of course it varies quite a bit |
| 6 | THE WITNESS: Sure. | 6 | from moment to moment, but it would be less |
| 7 | MS. O'DELL: Thank you. | 7 | than 10%. |
| 8 | BY MR. ZELLERS: | 8 | Q. Have you ever testified at |
| 9 | Q. Did you consider the literature | 9 | trial? |
| 10 | and the sources that refuted that association | 10 | A. Yes. |
| 11 | or causal relationship? | 11 | Q. On how many occasions? |
| 12 | A. I tried to consider all the | 12 | A. Probably ten. |
| 13 | available literature. | 13 | Q. The 30 to 35 depositions that |
| 14 | Q. When you wrote your report | 14 | you've given previously, those have been in |
| 15 | setting forth your opinions, did you set | 15 | the context of you providing litigation |
| 16 | forth the sources that refuted the | 16 | consulting services; is that right? |
| 17 | propositions you were making? | 17 | A. In terms of expert testimony, |
| 18 | A. I cited several sources that on | 18 | yes. |
| 19 | the surface might seem to refute my opinions. | 19 | Q. The trial appearances that |
| 20 | Q. And you believe that is | 20 | you've made, are those also in your capacity |
| 21 | contained in your report which we marked as | 21 | as an expert witness? |
| 22 | Exhibit 2; is that right? | 22 | A. Yes. |
| 23 | A. Yes. | 23 | Q. Have you been involved in other |
| 24 | Q. Have you been involved in any | 24 | litigations? |
| | · · · · · · · · · · · · · · · · · · · | | |
| | Page 55 | | Page 57 |
| | | l | rage 37 |
| 1 | other talcum powder litigation other than | 1 | A. Yes. |
| 1 2 | other talcum powder litigation other than this tale MDL matter that Mr. Abney talked to | 1 2 | A. Yes.Q. What other litigations have you |
| | | | A. Yes. |
| 2 | this talc MDL matter that Mr. Abney talked to | 2 | A. Yes.Q. What other litigations have you |
| 2 | this talc MDL matter that Mr. Abney talked to you about? | 2 3 | A. Yes. Q. What other litigations have you been involved in as an expert? |
| 2 3 4 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. | 2 3 4 | A. Yes.Q. What other litigations have you been involved in as an expert?A. Well, I've been asked to |
| 2 3 4 5 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that | 2 3 4 5 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of |
| 2 3 4 5 6 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of | 2 3 4 5 6 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental |
| 2 3 4 5 6 7 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum | 2 3 4 5 6 7 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury |
| 2 3 4 5 6 7 8 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum | 2 3 4 5 6 7 8 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. |
| 2 3 4 5 6 7 8 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. | 2 3 4 5 6 7 8 9 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for |
| 2 3 4 5 6 7 8 9 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in | 2 3 4 5 6 7 8 9 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of |
| 2 3 4 5 6 7 8 9 10 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in asbestos, correct? | 2 3 4 5 6 7 8 9 10 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of plaintiffs? |
| 2 3 4 5 6 7 8 9 10 11 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in asbestos, correct? MS. O'DELL: Object to the | 2 3 4 5 6 7 8 9 10 11 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of plaintiffs? A. No, it's been split about |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in asbestos, correct? MS. O'DELL: Object to the form. | 2 3 4 5 6 7 8 9 10 11 12 13 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of plaintiffs? A. No, it's been split about 50/50, plaintiff and defense. |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in asbestos, correct? MS. O'DELL: Object to the form. A. I'm an occupational medicine | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of plaintiffs? A. No, it's been split about 50/50, plaintiff and defense. Q. Have you ever been retained in |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in asbestos, correct? MS. O'DELL: Object to the form. A. I'm an occupational medicine physician, and I have a significant amount of | 2 3 4 5 6 7 8 9 10 11 12 13 14 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of plaintiffs? A. No, it's been split about 50/50, plaintiff and defense. Q. Have you ever been retained in a case involving cosmetic products? |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in asbestos, correct? MS. O'DELL: Object to the form. A. I'm an occupational medicine physician, and I have a significant amount of awareness and training regarding asbestos as | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of plaintiffs? A. No, it's been split about 50/50, plaintiff and defense. Q. Have you ever been retained in a case involving cosmetic products? A. No. |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in asbestos, correct? MS. O'DELL: Object to the form. A. I'm an occupational medicine physician, and I have a significant amount of awareness and training regarding asbestos as it relates to occupational exposures, but I don't consider myself an asbestos expert. | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of plaintiffs? A. No, it's been split about 50/50, plaintiff and defense. Q. Have you ever been retained in a case involving cosmetic products? A. No. Q. Your curriculum vitae that we marked as Exhibit 3, is it correct and up to date? |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in asbestos, correct? MS. O'DELL: Object to the form. A. I'm an occupational medicine physician, and I have a significant amount of awareness and training regarding asbestos as it relates to occupational exposures and general environmental exposures, but I don't consider myself an asbestos expert. BY MR. ZELLERS: | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of plaintiffs? A. No, it's been split about 50/50, plaintiff and defense. Q. Have you ever been retained in a case involving cosmetic products? A. No. Q. Your curriculum vitae that we marked as Exhibit 3, is it correct and up to date? A. It was up to date at the time |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in asbestos, correct? MS. O'DELL: Object to the form. A. I'm an occupational medicine physician, and I have a significant amount of awareness and training regarding asbestos as it relates to occupational exposures and general environmental exposures, but I don't consider myself an asbestos expert. BY MR. ZELLERS: Q. What percentage of your time do | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of plaintiffs? A. No, it's been split about 50/50, plaintiff and defense. Q. Have you ever been retained in a case involving cosmetic products? A. No. Q. Your curriculum vitae that we marked as Exhibit 3, is it correct and up to date? A. It was up to date at the time of submission of my report in the end of |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | this talc MDL matter that Mr. Abney talked to you about? A. No, I haven't. Q. In the 30 to 35 occasions that you've testified in the past, have any of those been on issues relating to talcum powder and any association between talcum powder and ovarian cancer? A. No. Q. You are not an expert in asbestos, correct? MS. O'DELL: Object to the form. A. I'm an occupational medicine physician, and I have a significant amount of awareness and training regarding asbestos as it relates to occupational exposures and general environmental exposures, but I don't consider myself an asbestos expert. BY MR. ZELLERS: | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | A. Yes. Q. What other litigations have you been involved in as an expert? A. Well, I've been asked to provide opinions and testify in a number of cases, most of which involved personal injury in the occupational setting or environmental exposures. Q. Has the majority of your expert work in the occupational setting and for environmental exposures been on behalf of plaintiffs? A. No, it's been split about 50/50, plaintiff and defense. Q. Have you ever been retained in a case involving cosmetic products? A. No. Q. Your curriculum vitae that we marked as Exhibit 3, is it correct and up to date? A. It was up to date at the time |

| | Page 58 | | Page 60 |
|---|--|---|--|
| 1 | or corrections need to be made to your CV, | 1 | is that right? |
| 2 | Exhibit 3, to bring it up to date? | 2 | A. Yes. |
| 3 | A. Well, I've terminated a | 3 | Q. What percentage of your time is |
| 4 | relationship with the University of Texas | 4 | spent in the clinical practice of medicine? |
| 5 | Medical Branch in Galveston where I was | 5 | A. Currently I see patients |
| 6 | their the medical director of their | 6 | one-half day a week and work as a supervisor |
| 7 | Employee Health Services Clinic. I continue | 7 | of the occupational medicine residents for |
| 8 | to be serve as an assistant clinical | 8 | additional time during the week, so clinical |
| 9 | professor of preventive medicine and family | 9 | activities would be about probably 12 hours a |
| 10 | medicine at that institution. | 10 | week. |
| 11 | I have terminated my | 11 | Q. Do you see or treat women for |
| 12 | relationship with the Enbridge Corporation as | 12 | gynecologic cancer? |
| 13 | their medical director. | 13 | A. I do not. |
| 14 | The Spectra Energy entry, which | 14 | Q. You have never worked for a |
| 15 | is about the seventh on the list of | 15 | company that manufactures cosmetic products, |
| 16 | professional activities, is also terminated | 16 | correct? |
| 17 | as that was a company that was merged and | 17 | A. That's correct. |
| 18 | became Enbridge. | 18 | Q. You're not a gynecologist or an |
| 19 | Q. Any other corrections or | 19 | oncologist, correct? |
| 20 | updates to your curriculum vitae that we've | 20 | A. That's correct. |
| 21 | marked as Exhibit 3? | 21 | Q. You're not a cancer biologist? |
| 22 | A. No. | 22 | MS. O'DELL: Object to the |
| 23 | Q. Why are you no longer serving | 23 | form. |
| 24 | as medical director, Employee Health Services | 24 | A. That's correct. |
| | Page 59 | | Page 61 |
| 1 | with the University of Texas? | 1 | BY MR. ZELLERS: |
| 2 | MS. O'DELL: Objection to form. | | |
| | Wis. O'BEEE. Objection to form. | 2 | Q. You are not a geologist, |
| 3 | A. That was a contract that I had | 2 | Q. You are not a geologist, mineralogist or microscopist? |
| | · · · · · · · · · · · · · · · · · · · | | |
| 3 | A. That was a contract that I had | 3 | mineralogist or microscopist? |
| 3 4 | A. That was a contract that I had through the University of Texas Houston | 3 4 | mineralogist or microscopist? A. That's correct. |
| 3 4 5 | A. That was a contract that I had through the University of Texas Houston College of Nursing that provided those services to UTMB, and UTMB decided to make a change and go with another contractor. | 3 4 5 | mineralogist or microscopist? A. That's correct. Q. You're not an epidemiologist? A. Well, I may be considered an epidemiologist simply by my appointment as an |
| 3 4 5 6 | A. That was a contract that I had through the University of Texas Houston College of Nursing that provided those services to UTMB, and UTMB decided to make a change and go with another contractor. BY MR. ZELLERS: | 3 4 5 6 | mineralogist or microscopist? A. That's correct. Q. You're not an epidemiologist? A. Well, I may be considered an epidemiologist simply by my appointment as an associate professor in the Department of |
| 3 4 5 6 7 | A. That was a contract that I had through the University of Texas Houston College of Nursing that provided those services to UTMB, and UTMB decided to make a change and go with another contractor. BY MR. ZELLERS: Q. Why are you no longer serving | 3 4 5 6 7 | mineralogist or microscopist? A. That's correct. Q. You're not an epidemiologist? A. Well, I may be considered an epidemiologist simply by my appointment as an associate professor in the Department of Epidemiology at the School of Public Health |
| 3 4 5 6 7 8 | A. That was a contract that I had through the University of Texas Houston College of Nursing that provided those services to UTMB, and UTMB decided to make a change and go with another contractor. BY MR. ZELLERS: Q. Why are you no longer serving as medical director for Spectra Energy | 3 4 5 6 7 8 | mineralogist or microscopist? A. That's correct. Q. You're not an epidemiologist? A. Well, I may be considered an epidemiologist simply by my appointment as an associate professor in the Department of Epidemiology at the School of Public Health here in Houston. |
| 3 4 5 6 7 8 9 10 | A. That was a contract that I had through the University of Texas Houston College of Nursing that provided those services to UTMB, and UTMB decided to make a change and go with another contractor. BY MR. ZELLERS: Q. Why are you no longer serving as medical director for Spectra Energy Corporation and Enbridge Corporation? | 3 4 5 6 7 8 9 10 | mineralogist or microscopist? A. That's correct. Q. You're not an epidemiologist? A. Well, I may be considered an epidemiologist simply by my appointment as an associate professor in the Department of Epidemiology at the School of Public Health here in Houston. Q. Do you have any professional |
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| 3 4 5 6 7 8 9 10 | A. That was a contract that I had through the University of Texas Houston College of Nursing that provided those services to UTMB, and UTMB decided to make a change and go with another contractor. BY MR. ZELLERS: Q. Why are you no longer serving as medical director for Spectra Energy Corporation and Enbridge Corporation? A. Well, Spectra Energy no longer exists; it became Enbridge Corporation. And | 3 4 5 6 7 8 9 10 | mineralogist or microscopist? A. That's correct. Q. You're not an epidemiologist? A. Well, I may be considered an epidemiologist simply by my appointment as an associate professor in the Department of Epidemiology at the School of Public Health here in Houston. Q. Do you have any professional education in the field well, strike that. Have you ever published or |
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|----|---|----------|---|
| | Page 62 | | Page 64 |
| 1 | a pulmonologist? | 1 | A. I think I had opinions about |
| 2 | A. That's correct. | 2 | talcum powder and its constituents, but if |
| 3 | Q. You're not a material | 3 | you could be more specific, I might be able |
| 4 | scientist? | 4 | to give you a more specific answer. |
| 5 | A. That's correct. | 5 | BY MR. ZELLERS: |
| 6 | Q. Nor are you a pathologist? | 6 | Q. Did you ever, before getting |
| 7 | A. Correct. | 7 | involved in this litigation in October of |
| 8 | Q. You've never been involved in | 8 | 2018, do research strike that. |
| 9 | any pathological exam or research relating to | 9 | You've never published on |
| 10 | ovarian cancer; is that right? | 10 | talcum powder, correct? |
| 11 | MS. O'DELL: Object to the | 11 | A. That's correct. |
| 12 | form. | 12 | Q. You have never published on the |
| 13 | A. I'm not sure exactly what you | 13 | constituent components of talcum powder, |
| 14 | mean by your question. | 14 | correct? |
| 15 | BY MR. ZELLERS: | 15 | A. That may not be the case. I've |
| 16 | Q. Sure. Let me withdraw that. | 16 | done work in some other minerals which have |
| 17 | You've never been involved in | 17 | resulted in publications, for example, |
| 18 | terms of the research relating to ovarian | 18 | vermiculite, which have touched on the issues |
| 19 | cancer, correct? | 19 | of asbestos, association with tale, |
| 20 | A. Not specifically, no. | 20 | association with other minerals, but never |
| 21 | Q. You've never authored any | 21 | specifically regarding talc. |
| 22 | literature or publications relating to talcum | 22 | Q. Are those publications on your |
| 23 | powder? | 23 | CV? |
| 24 | A. No. | 24 | A. They are. |
| | Page 63 | | Page 65 |
| 1 | Q. Or relating to ovarian cancer, | 1 | Q. That we marked as Exhibit 3? |
| 2 | correct? | 2 | A. Yes. |
| 3 | A. No. | 3 | Q. Okay. Have you ever |
| 4 | Q. Okay. What journals well, | 4 | communicated with the FDA regarding talcum |
| 5 | strike that. | 5 | powder? |
| 6 | You have never published on | 6 | A. I've not. |
| 7 | fragrance chemicals; is that right? | 7 | Q. Have you ever communicated with |
| 8 | MS. O'DELL: Object to the | 8 | Health Canada regarding talcum powder? |
| 9 | form. | 9 | A. No. |
| 10 | A. That's correct. | 10 | Q. When did you first start |
| 11 | BY MR. ZELLERS: | 11 | preparing your report which we've marked as |
| 12 | Q. Never done any research on | 12 | Exhibit 2? |
| 13 | fragrance chemicals, correct? | 13 | A. Well, I began a literature |
| 14 | A. I've done some work with | 14 | review immediately after talking to |
| 15 | fragrance chemicals and health effects that | 15 | Mr. Abney. |
| 16 | are associated with them, but I have not I | 16 | Q. My question, I guess, is: When |
| 17 | would not classify that as research or | 17 | did you start writing your report? |
| 18 | publication. | 18 | A. Well, technically I started |
| 19 | Q. You had no opinions regarding | 19 | writing my report after I was retained by |
| 20 | talcum powder or any of its constituent | 20 | plaintiffs' counsel. |
| 21 | components before getting involved in this | 21 | Q. Late October, early |
| 22 | litigation; is that right? | 22 | November 2018? |
| 23 | MS. O'DELL: Object to the | 23 | MS. O'DELL: Object to the |
| 24 | form. | 24 | form, misstates his prior testimony. |
| | | | |

| | | 1 | |
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| | Page 66 | | Page 68 |
| 1 | A. In October of 2018. | 1 | and bolts of what goes on legally in this |
| 2 | BY MR. ZELLERS: | 2 | case. I know there are multiple lawsuits, |
| 3 | Q. Have you reviewed any of the | 3 | and I'm not sure which ones those these |
| 4 | deposition transcripts of any of the experts | 4 | are pertinent to. |
| 5 | that have been deposed in this litigation? | 5 | BY MR. ZELLERS: |
| 6 | A. Yes. | 6 | Q. My question is a little |
| 7 | Q. What deposition transcripts of | 7 | different and I hope pretty simple: In |
| 8 | experts have you reviewed? | 8 | addition to the depositions, transcripts and |
| 9 | A. Oh, of experts? No, I have not | 9 | reports that you have listed on pages 27 and |
| 10 | reviewed well, I've reviewed I've | 10 | 28 of Exhibit 4, your literature list, are |
| 11 | reviewed expert depositions, but I don't know | 11 | there any additional depositions or |
| 12 | what case they were deposed in, but it | 12 | transcripts that you've reviewed? |
| 13 | relates to talcum powder and ovarian cancer | 13 | A. Pardon me for a moment while I |
| 14 | issue. | 14 | review this. |
| 15 | Q. What expert depositions have | 15 | (Document review.) |
| 16 | you reviewed? | 16 | A. No, I'm not aware that there |
| 17 | A. They're all cited in the | 17 | are. |
| 18 | literature exhibit. | 18 | BY MR. ZELLERS: |
| 19 | Q. All of the deposition | 19 | Q. Your testimony earlier was that |
| 20 | transcripts that you've reviewed are cited in | 20 | you have reviewed each of those depositions |
| 21 | Exhibit 4? | 21 | in their entirety; is that right? |
| 22 | A. I think any of the transcripts | 22 | A. Yes. |
| 23 | that I review are reviewed are probably | 23 | Q. You have also reviewed the |
| 24 | included in here. | 24 | exhibits to those depositions; is that right? |
| | Page 67 | | Page 69 |
| 1 | Q. Are you aware of reviewing any | 1 | A. If they were made available to |
| 2 | transcripts that you did not include in your | 2 | me, I've looked at all those exhibits as |
| 3 | literature statement? | 3 | well. |
| 4 | A. I'm not aware, but I can't tell | 4 | Q. On page 27 of Exhibit 4, who is |
| 5 | you as I'm sitting here right now whether all | 5 | Annie Yessaian? |
| 6 | of those are included in this literature | 6 | A. On page 24? |
| 7 | statement or not. | 7 | Q. Strike that. I'm sorry. On |
| 8 | | | |
| | Q. You looking at page | 8 | page 27 of Exhibit 4 |
| 9 | MS. O'DELL: I'm sorry. Go | 9 | page 27 of Exhibit 4 A. I see. |
| 10 | MS. O'DELL: I'm sorry. Go ahead. | 9 10 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie |
| 10 11 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: | 9 10 11 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? |
| 10 11 12 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe | 9 10 11 12 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. |
| 10 11 12 13 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in | 9 10 11 12 13 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire |
| 10 11 12 13 14 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? | 9 10 11 12 13 14 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? |
| 10 11 12 13 14 15 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? A. Well, let me just see here. | 9 10 11 12 13 14 15 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? A. I don't. |
| 10 11 12 13 14 15 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? A. Well, let me just see here. There are | 9 10 11 12 13 14 15 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? A. I don't. Q. Well, go to the next page. Who |
| 10 11 12 13 14 15 16 17 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? A. Well, let me just see here. There are MS. O'DELL: I think they're at | 9 10 11 12 13 14 15 16 17 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? A. I don't. Q. Well, go to the next page. Who is Pat Downey? |
| 10 11 12 13 14 15 16 17 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? A. Well, let me just see here. There are MS. O'DELL: I think they're at the end, Dr. Carson. | 9 10 11 12 13 14 15 16 17 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? A. I don't. Q. Well, go to the next page. Who is Pat Downey? A. I believe Pat Downey is an |
| 10 11 12 13 14 15 16 17 18 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? A. Well, let me just see here. There are MS. O'DELL: I think they're at the end, Dr. Carson. THE WITNESS: At the very end. | 9 10 11 12 13 14 15 16 17 18 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? A. I don't. Q. Well, go to the next page. Who is Pat Downey? A. I believe Pat Downey is an operative of the Imerys company. |
| 10 11 12 13 14 15 16 17 18 19 20 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? A. Well, let me just see here. There are MS. O'DELL: I think they're at the end, Dr. Carson. THE WITNESS: At the very end. A. Beginning on page 27 is a list | 9 10 11 12 13 14 15 16 17 18 19 20 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? A. I don't. Q. Well, go to the next page. Who is Pat Downey? A. I believe Pat Downey is an operative of the Imerys company. Q. Do you know what Mr. Downey's |
| 10 11 12 13 14 15 16 17 18 19 20 21 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? A. Well, let me just see here. There are MS. O'DELL: I think they're at the end, Dr. Carson. THE WITNESS: At the very end. A. Beginning on page 27 is a list of the depositions, transcripts and reports | 9 10 11 12 13 14 15 16 17 18 19 20 21 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? A. I don't. Q. Well, go to the next page. Who is Pat Downey? A. I believe Pat Downey is an operative of the Imerys company. Q. Do you know what Mr. Downey's position is? |
| 10 11 12 13 14 15 16 17 18 19 20 21 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? A. Well, let me just see here. There are MS. O'DELL: I think they're at the end, Dr. Carson. THE WITNESS: At the very end. A. Beginning on page 27 is a list of the depositions, transcripts and reports that I've reviewed, which include some of the | 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? A. I don't. Q. Well, go to the next page. Who is Pat Downey? A. I believe Pat Downey is an operative of the Imerys company. Q. Do you know what Mr. Downey's position is? A. It's a supervisory position |
| 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? A. Well, let me just see here. There are MS. O'DELL: I think they're at the end, Dr. Carson. THE WITNESS: At the very end. A. Beginning on page 27 is a list of the depositions, transcripts and reports that I've reviewed, which include some of the expert witnesses, but again, I would have to | 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? A. I don't. Q. Well, go to the next page. Who is Pat Downey? A. I believe Pat Downey is an operative of the Imerys company. Q. Do you know what Mr. Downey's position is? A. It's a supervisory position regarding regarding quality of the talc |
| 10 11 12 13 14 15 16 17 18 19 20 21 | MS. O'DELL: I'm sorry. Go ahead. BY MR. ZELLERS: Q. Are there any that you believe you have reviewed that are not included in the literature statement? A. Well, let me just see here. There are MS. O'DELL: I think they're at the end, Dr. Carson. THE WITNESS: At the very end. A. Beginning on page 27 is a list of the depositions, transcripts and reports that I've reviewed, which include some of the | 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | page 27 of Exhibit 4 A. I see. Q at the bottom, who is Annie Yessaian? A. I don't recall. Q. You reviewed her entire transcript and you don't recall who she is? A. I don't. Q. Well, go to the next page. Who is Pat Downey? A. I believe Pat Downey is an operative of the Imerys company. Q. Do you know what Mr. Downey's position is? A. It's a supervisory position |

| | Page 70 | | Page 72 |
|--|---|--|--|
| 1 | Q. Who is John Hopkins? | 1 | BY MR. ZELLERS: |
| 2 | A. John Hopkins is an official, I | 2 | Q. Once you looked at these |
| 3 | believe, of I'm not sure of Johnson & | 3 | documents, the Imerys documents and the |
| 4 | Johnson, I believe, who has some oversight of | 4 | documents produced by the Johnson & Johnson |
| 5 | tale quality as well. | 5 | companies, did you ask plaintiffs' counsel |
| 6 | Q. Susan Nicholson, who is she? | 6 | for any additional documents? |
| 7 | A. I don't recall. | 7 | A. I did not. My understanding is |
| 8 | Q. Who is Julie Pier? | 8 | that most of these are reports, testing |
| 9 | A. Julie Pier is another scientist | 9 | reports, and most of them are positive |
| 10 | who works for Imerys, who is responsible for | 10 | results regarding the presence of asbestos or |
| 11 | testing and quality. | 11 | fibers in the product. And I know that there |
| 12 | Q. In your clinical and academic | 12 | were many others that may not have shown |
| 13 | practice, do you typically rely upon | 13 | positive results that I did not look at. |
| 14 | depositions of company witnesses or experts? | 14 | Q. Did you ask the plaintiff |
| 15 | MS. O'DELL: Object to the | 15 | attorneys to show you or provide you with the |
| 16 | form. | 16 | testing documentation that showed an absence |
| 17 | A. If there's pertinent | 17 | of asbestos or asbestos fibers in the talcum |
| 18 | information in there that leads me to other | 18 | powder? |
| 19 | | 19 | |
| 20 | areas or helps me formulate my opinions, then | 20 | A. Regarding the test results that are equivalent to these that were negative, |
| 21 | yes. BY MR. ZELLERS: | 21 | no, I did not request those. |
| 22 | | 22 | |
| 23 | Q. In the papers and publications that you have identified in your curriculum | 23 | Q. Did you review documents relating to any fragrance chemicals that are |
| 23 24 | vitae, Exhibit 3, do you ever recall citing | 24 | contained in or that you believe are |
| 24 | vitae, Exhibit 3, do you ever recail citing | 24 | contained in or that you believe are |
| | Page 71 | | Page 73 |
| 1 | to company witness deposition testimony? | 1 | contained in the talcum powder? |
| 2 | A. I don't typically cite | 2 | A. Yes. I did review some lists |
| 3 | deposition testimonies in published papers. | 3 | and, of course, Dr. Crowley's report. |
| 4 | Q. You cite to various company | 4 | Q. Do you have any idea or |
| 5 | documents. This is on pages 29 to 30 of | 5 | understanding as to the amount or amounts of |
| 6 | Exhibit 4, your list of literature; is that | 6 | the fragrance chemicals that are contained in |
| 7 | right? | 7 | the talcum powder in either the Johnson & |
| 8 | A. Yes. | 8 | Johnson Consumer company talcum powder that's |
| 9 | Q. Did you rely on these documents | 9 | involved in this litigation? |
| 10 | in formulating your opinions? | 10 | MS. O'DELL: Object to the |
| 11 | A. Yes. | 11 | form. |
| 1.0 | Q. Were these documents selected | 12 | MR. ZELLERS: Let me withdraw |
| 12 | Q. Were these documents selected | 12 | MR. ZELLERS. Let life withdraw |
| 13 | for you by plaintiffs' counsel? | 13 | that. |
| | • | | |
| 13 14 15 | for you by plaintiffs' counsel? A. Yes, they were. Q. Are you able to identify what | 13 | that. BY MR. ZELLERS: Q. Do you know or have any |
| 13 14 | for you by plaintiffs' counsel? A. Yes, they were. Q. Are you able to identify what each of the documents are? | 13 14 | that. BY MR. ZELLERS: |
| 13 14 15 | for you by plaintiffs' counsel? A. Yes, they were. Q. Are you able to identify what | 13 14 15 | that. BY MR. ZELLERS: Q. Do you know or have any |
| 13 14 15 16 | for you by plaintiffs' counsel? A. Yes, they were. Q. Are you able to identify what each of the documents are? | 13 14 15 16 | that. BY MR. ZELLERS: Q. Do you know or have any understanding as to the amounts of fragrance |
| 13 14 15 16 17 | for you by plaintiffs' counsel? A. Yes, they were. Q. Are you able to identify what each of the documents are? MS. O'DELL: Based on the Bates | 13 14 15 16 17 | that. BY MR. ZELLERS: Q. Do you know or have any understanding as to the amounts of fragrance chemicals that are in the talcum powder? |
| 13 14 15 16 17 | for you by plaintiffs' counsel? A. Yes, they were. Q. Are you able to identify what each of the documents are? MS. O'DELL: Based on the Bates number? | 13 14 15 16 17 18 | that. BY MR. ZELLERS: Q. Do you know or have any understanding as to the amounts of fragrance chemicals that are in the talcum powder? A. I do not have the specific |
| 13 14 15 16 17 18 19 20 21 | for you by plaintiffs' counsel? A. Yes, they were. Q. Are you able to identify what each of the documents are? MS. O'DELL: Based on the Bates number? MR. ZELLERS: Based on the | 13 14 15 16 17 18 | that. BY MR. ZELLERS: Q. Do you know or have any understanding as to the amounts of fragrance chemicals that are in the talcum powder? A. I do not have the specific formulation or quantities of those substances |
| 13 14 15 16 17 18 19 20 | for you by plaintiffs' counsel? A. Yes, they were. Q. Are you able to identify what each of the documents are? MS. O'DELL: Based on the Bates number? MR. ZELLERS: Based on the Bates numbers. | 13 14 15 16 17 18 19 20 | that. BY MR. ZELLERS: Q. Do you know or have any understanding as to the amounts of fragrance chemicals that are in the talcum powder? A. I do not have the specific formulation or quantities of those substances that contributed to the products. |
| 13 14 15 16 17 18 19 20 21 | for you by plaintiffs' counsel? A. Yes, they were. Q. Are you able to identify what each of the documents are? MS. O'DELL: Based on the Bates number? MR. ZELLERS: Based on the Bates numbers. A. No, I am not. I would have to | 13 14 15 16 17 18 19 20 21 | that. BY MR. ZELLERS: Q. Do you know or have any understanding as to the amounts of fragrance chemicals that are in the talcum powder? A. I do not have the specific formulation or quantities of those substances that contributed to the products. Q. Do |

| | Page 74 | | Page 76 |
|--|---|--|---|
| 1 | finish. | 1 | understanding of business practices and these |
| 2 | MS. O'DELL: In that instance, | 2 | types of industries, I've reviewed an |
| 3 | I don't know that he was, and so if he | 3 | extremely small percentage of those. |
| 4 | was, my apologies. | 4 | Q. Is it your practice in your |
| 5 | MR. ZELLERS: It's okay. | 5 | academic work or your clinical research work |
| 6 | MS. O'DELL: I've been on my | 6 | to rely on internal company documents? |
| 7 | best behavior today, as you know, | 7 | A. Yes, it is. |
| 8 | so but I don't want the witness to | 8 | Q. Do you rely on internal company |
| 9 | feel as if they're being cut off, and | 9 | documents when you publish papers? |
| 10 | because Dr. Carson is a very polite | 10 | A. In some cases. |
| 11 | gentlemen, he would let you interrupt | 11 | Q. Can you tell me in what cases |
| 12 | him. | 12 | or instances you have relied on internal |
| 13 | MR. ZELLERS: Of course. | 13 | company documents in your publications? |
| 14 | MS. O'DELL: And I don't think | 14 | A. Well, for example, I did I |
| 15 16 | that's fair. | 15 | was involved in some research work in |
| 16 | So, Dr. Carson, if you're | 16 | conjunction with NIOSH at the O.M. Scott |
| 17 18 | finished, great. If you're not, you | 17 | Company at Marysville, Ohio, where we did |
| 19 | may continue. | 18 | a we performed a research in the company |
| 20 | A. Well, I was going to say that | 19 20 | and relied on some internal documents in |
| 21 | my opinion is that there are very small quantities of those substances that | 20 | terms of gauging concentrations, industrial |
| 22 | contribute to the fragrance component. | 21 | hygiene records and so forth, in order to draw conclusions that were pertinent to those |
| 23 | BY MR. ZELLERS: | 23 | publications. |
| 24 | Q. Do you know how those | 24 | Q. Was that data or were those |
| 21 | Q. Do you know now those | 24 | Q. was that data of were those |
| | Daga 7F | | |
| | Page 75 | | Page 77 |
| 1 | quantities of fragrance chemicals may have | 1 | Page 77 internal communications that you relied on? |
| 1 2 | | 1 2 | |
| | quantities of fragrance chemicals may have changed over the years? A. My understanding is they have | l | internal communications that you relied on? |
| 2 | quantities of fragrance chemicals may have changed over the years? A. My understanding is they have not changed dramatically, but there have been | 2 | internal communications that you relied on? A. They were both. Q. What is the publication on your CV where you relied on those materials? |
| 2 3 4 5 | quantities of fragrance chemicals may have changed over the years? A. My understanding is they have not changed dramatically, but there have been certain substitutions over time. | 2 3 4 5 | internal communications that you relied on? A. They were both. Q. What is the publication on your CV where you relied on those materials? A. Well, let me see here. I think |
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| 2 3 4 5 6 7 | quantities of fragrance chemicals may have changed over the years? A. My understanding is they have not changed dramatically, but there have been certain substitutions over time. Q. Do you agree that to the extent that you have reviewed internal documents, | 2 3 4 5 6 7 | internal communications that you relied on? A. They were both. Q. What is the publication on your CV where you relied on those materials? A. Well, let me see here. I think the first author looking back here the first author would be Jim Lockey. |
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| 2 3 4 5 6 7 8 9 | quantities of fragrance chemicals may have changed over the years? A. My understanding is they have not changed dramatically, but there have been certain substitutions over time. Q. Do you agree that to the extent that you have reviewed internal documents, either of Imerys or from Johnson & Johnson companies, that you have only reviewed the | 2 3 4 5 6 7 8 9 | internal communications that you relied on? A. They were both. Q. What is the publication on your CV where you relied on those materials? A. Well, let me see here. I think the first author looking back here the first author would be Jim Lockey. Q. Looking at page 6? A. It's on page 6, and the |
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|----------------------|---|----------------|---|
| | Page 78 | | Page 80 |
| 1 | MS. O'DELL: Object to the | 1 | department? |
| 2 | form. | 2 | A. She's in my department, yes. |
| 3 | A. I don't agree that that's the | 3 | Q. You understand she's a |
| 4 | case because I am capable of understanding | 4 | lawyer strike that. |
| 5 | that it's a subset of available information, | 5 | You understand she's an expert |
| 6 | and I can make a reliable determination on | 6 | for the plaintiffs in this litigation? |
| 7 | the pertinence of that material regardless. | 7 | A. I didn't know that. |
| 8 | BY MR. ZELLERS: | 8 | Q. Dr. Ness never told you that |
| 9 | Q. Without looking at any other | 9 | she was an expert witness for plaintiffs in |
| 10 | documents or any documents that may put the | 10 | this matter? |
| 11 | documents you were provided in context? | 11 | A. No, we didn't discuss this |
| 12 | MS. O'DELL: Object to the | 12 | case. We only discussed the issue. |
| 13 | form. | 13 | |
| 14 | A. It depends on the specific | 14 | Q. Any other colleagues that you discussed your report and opinions with? |
| 15 | | 1 | |
| | case, but I would say in most cases, yes. BY MR. ZELLERS: | 15 | MS. O'DELL: Object to the |
| 16 | | 16 | form. |
| 17 | Q. In this case, it was not | 17 | A. I think I shared some of my |
| 18 | necessary for you to look at any documents | 18 | thinking with the occupational medicine |
| 19 | other than those specific documents the | 19 | residents as a group and asked them to |
| 20 | plaintiffs provided to you; is that your | 20 | consider certain issues in the case. |
| 21 | testimony? | 21 | BY MR. ZELLERS: |
| 22 | MS. O'DELL: Object to the | 22 | Q. Did they contribute to your |
| 23 | form. | 23 | review and analysis and opinions? |
| 24 | A. Regarding the contribution to | 24 | A. We had an interesting |
| | | | |
| , | | 1 | |
| 1 | my opinions, I would say, yes, it was not | 1 | discussion, but I don't think that changed my |
| 2 | necessary. | 2 | opinions in any way. |
| 3 | BY MR. ZELLERS: | 3 | Q. The opinions that you're |
| 4 | Q. Did you do any independent | 4 | expressing in this case are your opinions; is |
| 5 | investigation to reach your opinions, other | 5 | that right? |
| 6 | than the literature search and review of | 6 | A. That's correct. |
| 7 | websites that you told us about earlier? | 7 | Q. Your opinions you set forth in |
| 8 | A. Other than just general | 8 | your report beginning on page 7; is that |
| 9 | discussion with colleagues, no. | 9 | right? |
| 10 | Q. Did any of the colleagues that | 10 | A. Let me refer to my report, if |
| 11 | you spoke with provide you with any | 11 | you don't mind. |
| 12 | substantive support for your opinions? | 12 | MS. O'DELL: Object to the |
| 13 | A. Not that I can recall. It was | 13 | form. |
| 14 | mostly just helpful feedback. | 14 | A. I would say I would say in |
| 15 | Q. The colleagues that you spoke | 15 | answer to that question that, yes, my |
| 16 | with were who? | 16 | opinions do begin on page 7 of the report. |
| 17 | A. Various colleagues in my | 17 | BY MR. ZELLERS: |
| 1 | department or in the School of Public Health. | 18 | Q. Your first opinion set forth on |
| 18 | | 19 | page 7 is that talcum powder is immunogenic |
| 18 19 | Q. Who? | 10 | |
| | Q. Who?A. Well, Dr. George Delclos, who | 20 | and carcinogenic; is that right? |
| 19 | • | | |
| 19 20 | A. Well, Dr. George Delclos, who | 20 | and carcinogenic; is that right? |
| 19 20 21 | A. Well, Dr. George Delclos, who is a pulmonologist; Dr. Brett Perkison, who | 20 21 | and carcinogenic; is that right? A. Yes. |
| 19 20 21 22 | A. Well, Dr. George Delclos, who is a pulmonologist; Dr. Brett Perkison, who is an occupational medicine physician; | 20 21 22 | and carcinogenic; is that right? A. Yes. MS. O'DELL: Excuse me. |

| | | 1 | |
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| İ | Page 82 | | Page 84 |
| 1 | perineal use of talcum powder results in | 1 | MS. O'DELL: Object to the |
| 2 | direct exposure to the ovaries either via | 2 | form. |
| 3 | inhalation or migration through the female | 3 | A. It's an anatomical fact. The |
| 4 | reproductive tract, correct? | 4 | physiology of the reproductive system does |
| 5 | A. I would not phrase the opinion | 5 | not provide the ovaries with the kind of |
| 6 | in that way, but in general, that is my | 6 | clearance system that, for example, the lungs |
| 7 | opinion, yes. | 7 | would have for inhaled exposures. |
| 8 | Q. How would you phrase your | 8 | BY MR. ZELLERS: |
| 9 | second opinion? | 9 | Q. The words "no intrinsic |
| 10 | A. I think my second opinion | 10 | elimination system," are those your words or |
| 11 | relates mostly to the direct exposure to the | 11 | are those words that you've seen reported in |
| 12 | reproductive tract that perineal use of | 12 | another study or another paper? |
| 13 | talcum powder produces. | 13 | A. I think that's a fairly generic |
| 14 | Q. Are you opining as to | 14 | description, that those are my words. |
| 15 | inhalation as an exposure of talcum powder to | 15 | Q. Your fourth opinion is that you |
| 16 | women's ovaries? | 16 | believe that the epidemiological studies on |
| 17 | MS. O'DELL: Object to the | 17 | talcum powder and ovarian cancer show about a |
| 18 | form. | 18 | 30% increased risk; is that right? |
| 19 | A. Only as a secondary route of | 19 | A. Correct. |
| 20 | exposure. | 20 | MS. O'DELL: Object to the |
| 21 | BY MR. ZELLERS: | 21 | form. |
| 22 | Q. Is it part of your opinions or | 22 | BY MR. ZELLERS: |
| 23 | do you defer to other experts on inhalation? | 23 | Q. As you told us at the outset, |
| 24 | A. I would include that as my | 24 | those are all still your opinions, although |
| | | | |
| | Page 83 | | Page 85 |
| 1 | opinion. | 1 | you do believe even stronger that there is a |
| 2 | Q. So you're testifying here today | 2 | causal association between talcum powder and |
| 3 | that the perineal use of talcum powder | 3 | ovarian cancer; is that right? |
| 4 | results in direct exposure to the ovaries | 4 | A. That's correct. |
| 5 | through migration through the female | 5 | Q. Have you published on your |
| 6 | reproductive tract and that inhalation also | 6 | theory that baby powder causes ovarian |
| 7 | results in exposure of talcum powder to the | 7 | cancer? |
| 8 | ovaries; is that right? | 8 | A. No. |
| 9 | A. That is correct, but my basic | 9 | Q. Do you have plans to do that? |
| 10 | opinion is that perineal use of talcum powder | 10 | A. Not presently. |
| 11 | exposes the entire reproductive tract, | 11 | Q. Have you conducted any tests or |
| 12 | including the pelvic cavity. So it's a bit | 12 | experiments to confirm your theory that talc |
| 13 | more extensive than your phrasing. | 13 | migrates to the ovaries? |
| 14 | Q. Your third opinion is very | 14 | MS. O'DELL: Object to the |
| 15 | similar to your first opinion, except that | 15 | form. |
| 1 (| here you add that it's your opinion that the | 16 | A. These are conclusions that I |
| 16 | ovaries are particularly susceptible to the | 17 | have drawn based on published literature. I |
| 17 | | | |
| 17 18 | carcinogenicity of talcum powder because they | 18 | wouldn't characterize them as a theory. I |
| 17 | | 18 19 | wouldn't characterize them as a theory. I think they're pretty much established fact. |
| 17 18 | carcinogenicity of talcum powder because they | | |
| 17 18 19 | carcinogenicity of talcum powder because they have, in your words, "no intrinsic | 19 | think they're pretty much established fact. BY MR. ZELLERS: Q. I'm going to ask you about all |
| 17 18 19 20 | carcinogenicity of talcum powder because they have, in your words, "no intrinsic elimination system"; is that right? | 19 20 | think they're pretty much established fact. BY MR. ZELLERS: Q. I'm going to ask you about all these opinions, and so we'll go through the |
| 17 18 19 20 21 | carcinogenicity of talcum powder because they have, in your words, "no intrinsic elimination system"; is that right? A. That's correct. | 19 20 21 | think they're pretty much established fact. BY MR. ZELLERS: Q. I'm going to ask you about all |

| | Page 86 | | Page 88 |
|--|--|--|---|
| 1 | some of these matters are established fact. | 1 | you aware of any article that identifies |
| 2 | My question is: Did you do any | 2 | inflammation in a woman's reproductive tract |
| 3 | tests or experiments as part of your review | 3 | resulting from external genital talc |
| 4 | and analysis in this matter? | 4 | application? |
| 5 | A. I did not. | 5 | MS. O'DELL: Object to the |
| 6 | Q. Did you do any tests or | 6 | form. |
| 7 | experiments relating to your opinion that | 7 | A. I would say that the studies |
| 8 | talc causes cancer via inflammation? | 8 | which have looked at that have relied on the |
| 9 | A. I did not. | 9 | result of internal application to show |
| 10 | Q. Can you identify any article | 10 | migration. There have been studies that have |
| 11 | that identifies inflammation anywhere in a | 11 | shown inflammation as the result of talc, and |
| 12 | woman's reproductive tract that results from | 12 | in my opinion, external application is the |
| 13 | external genital talc application? | 13 | same as internal application in the |
| 14 | MS. O'DELL: Object to the | 14 | reproductive tract. |
| 15 | form. | 15 | BY MR. ZELLERS: |
| 16 | A. I think there are a number of | 16 | Q. I don't mean to be |
| 17 | published articles that allude to that | 17 | argumentative, and I don't want to be, but |
| 18 | relationship and draw a fairly strong | 18 | can you name me an article that identifies |
| 19 | conclusion that it exists. | 19 | inflammation in a woman's reproductive tract |
| 20 | MS. O'DELL: Mike, excuse me, | 20 | resulting from external genital talc |
| 21 | and I'm sorry to interrupt. We've | 21 | application? |
| 22 | been going over an hour and a half. | 22 | MS. O'DELL: Objection, asked |
| 23 | Are you at a point where we can take | 23 | and answered. |
| 24 | just a short break for | 24 | A. I can't specifically. |
| | | | |
| | | | |
| | Page 87 | | Page 89 |
| 1 | Page 87 MR. ZELLERS: Sure, we can. | 1 | Page 89 MR. ZELLERS: Let's take a |
| 2 | | 1 2 | |
| | MR. ZELLERS: Sure, we can. | | MR. ZELLERS: Let's take a |
| 2 | MR. ZELLERS: Sure, we can. Let me just ask these couple of | 2 | MR. ZELLERS: Let's take a break. THE VIDEOGRAPHER: We're off the record, 10:37, end of Tape 1. |
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| | Page 90 | | Page 92 |
| 1 | Q. Did you strike that. | 1 | MR. ZELLERS: I'm asking the |
| 2 | Are you familiar with the | 2 | doctor a question. |
| 3 | Center for Disease Control in the United | 3 | MS. O'DELL: Okay. |
| 4 | States? | 4 | MR. ZELLERS: So |
| 5 | A. Yes. | 5 | MS. O'DELL: That's specific |
| 6 | Q. Did you review the CDC and its | 6 | language, and if you have specific |
| 7 | position on any relationship between talcum | 7 | language that you're reading from the |
| 8 | powder and ovarian cancer? | 8 | report or you've taken from the |
| 9 | A. That may have been part of my | 9 | report, I would just ask that you show |
| 10 | review, but I don't specifically recall now | 10 | the doctor. |
| 11 | what the CDC has on that issue. | 11 | MR. ZELLERS: Ms. O'Dell, I |
| 12 | Q. CDC does not list talc or | 12 | have my question. I'm asking my |
| 13 | talcum powder as a risk factor for ovarian | 13 | question. The doctor can either |
| 14 | cancer, correct? | 14 | answer my question or not answer my |
| 15 | A. It's quite possible. | 15 | question. I'm not reading from a |
| 16 | Q. Mayo Clinic and a number of | 16 | document. I'm reading from my notes. |
| 17 | medical centers do not list talc as a risk | 17 | MS. O'DELL: I object to the |
| 18 | factor for ovarian cancer, correct? | 18 | form of the question. I think it's |
| 19 | A. That may be true. | 19 | unfair. |
| 20 | Q. Did you consider, or are you | 20 | MR. ZELLERS: Can you answer |
| 21 | familiar with the National Cancer Institute? | 21 | that question, Doctor? |
| 22 | A. I am. | 22 | A. I would agree that that |
| 23 | Q. National Cancer Institute is a | 23 | restates the general opinion of the NCI as |
| 24 | leading health authority in the United | 24 | published, but in order to verify the |
| | | | |
| | | | |
| | Page 91 | | Page 93 |
| 1 | Page 91 States; is that right? | 1 | Page 93 specific wording, I would need to look at the |
| 1 2 | | 1 2 | |
| | States; is that right? | | specific wording, I would need to look at the document. BY MR. ZELLERS: |
| 2 | States; is that right? A. Yes. Q. Particularly in the area of cancer and materials that may or may not be | 2 | specific wording, I would need to look at the document. BY MR. ZELLERS: Q. Why would you rely on |
| 2 3 | States; is that right? A. Yes. Q. Particularly in the area of cancer and materials that may or may not be carcinogenic; is that right? | 2 | specific wording, I would need to look at the document. BY MR. ZELLERS: |
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| 9 form. 10 Q. Does the National Cancer 11 Institute review the peer-reviewed literature 12 as it relates to risk factors for ovarian 13 cancer? 14 A. They have a number of 15 committees that are set up for that purpose, 16 and it is it's a committee approach which 17 is handled by a committee chairperson. The 18 National Cancer Institute itself has some 19 oversight of that process, but they defer to 20 the committee chairs. 21 Q. You understand that the Health 22 Canada assessment is a draft; is that right? 23 A. Yes. 9 form. A. Yes. 10 A. Yes. 9 form. A. Yes. 11 BY MR. ZELLERS: 12 Q. Are you familiar with the Procautionary principle? A. I am. Q. What is the precautionary principle? A. The precautionary principle states that changes should take place in the face of a potential hazard until that hazard is proved not to exist. It's a general precept that's used in the EU, for example, and very different from the one that operates in this country. | 8 | | 8 | |
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| committees that are set up for that purpose, and it is it's a committee approach which is handled by a committee chairperson. The National Cancer Institute itself has some oversight of that process, but they defer to the committee chairs. Q. What is the precautionary principle? A. The precautionary principle states that changes should take place in the face of a potential hazard until that hazard is proved not to exist. It's a general precept that's used in the EU, for example, and very different from the one that operates in this country. | | | | |
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| Q. You understand that the Health Canada assessment is a draft; is that right? A. Yes. Q. You understand that the Health precept that's used in the EU, for example, and very different from the one that operates in this country. | | | 1 | • |
| Canada assessment is a draft; is that right? 22 and very different from the one that operates 23 A. Yes. 23 in this country. | | | I . | |
| 23 A. Yes. 23 in this country. | | | 1 | |
| | | | 1 | |
| Q. The principle in this country | | | | • |
| | 41 | Q. I on understand that it's at the | | Q. The principle in this country |

| | Page 98 | | Page 100 |
|--|--|--|---|
| 1 | is that there needs to be scientific evidence | 1 | Did I read that correctly? |
| 2 | in order to take action; is that right? | 2 | A. You did. |
| 3 | MS. O'DELL: Object to the | 3 | Q. Is that your understanding of |
| 4 | form. | 4 | what a precautionary approach is? |
| 5 | A. Yes, that's correct. | 5 | A. Yes. In general, the |
| 6 | BY MR. ZELLERS: | 6 | precautionary principle can be restated that |
| 7 | Q. The precautionary principle | 7 | an ounce of prevention is worth a pound of |
| 8 | says even before there's full or complete | 8 | cure. |
| 9 | scientific demonstration of cause and effect, | 9 | Q. Health Canada does not require |
| 10 | it is appropriate to take a precautionary | 10 | a finding of causation such as required in |
| 11 | approach; is that right? | 11 | litigation matters in this country, the |
| 12 | A. That's right. | 12 | United States; is that right? |
| 13 | Q. The Health Canada follows | 13 | A. In order to adopt a document |
| 14 | strike that. | 14 | that has a significant effect on general |
| 15 | Health Canada follows and has | 15 | public health practices, no, it does not. |
| 16 | adopted a precautionary approach; is that | 16 | Q. The Taher paper, that's another |
| 17 | right? | 17 | paper that you have reviewed since you |
| 18 | A. Yes. | 18 | published your report; is that right? |
| 19 | Q. Please review | 19 | A. Which paper? I'm sorry. |
| 20 | Deposition Exhibit 14. | 20 | Q. This is what we've marked as |
| 21 | (Carson Deposition Exhibit 14 | 21 | Exhibit 7. You brought it with you here |
| 22 | marked.) | 22 | today? |
| 23 | BY MR. ZELLERS: | 23 | A. Okay. Yes. |
| 24 | Q. Deposition Exhibit 14 is the | 24 | Q. You've read the Taher 2018 |
| | | | |
| | Page 99 | | Page 101 |
| 1 | H 14 C 1 D '' M1' E 1 C | l | |
| | Health Canada Decision-Making Framework for | 1 | manuscript; is that right? |
| 2 | Identifying, Assessing and Managing Health | 1 2 | manuscript; is that right? A. Yes. |
| | | l | |
| 2 | Identifying, Assessing and Managing Health | 2 | A. Yes. |
| 2 3 | Identifying, Assessing and Managing Health Risk. | 2 3 | A. Yes. Q. Where did you obtain that |
| 2 3 4 | Identifying, Assessing and Managing Health Risk. Do you see that? | 2 3 4 | A. Yes. Q. Where did you obtain that manuscript from? |
| 2 3 4 5 | Identifying, Assessing and Managing Health Risk. Do you see that? A. Yes. | 2 3 4 5 | A. Yes. Q. Where did you obtain that manuscript from? A. This was obtained directly from |
| 2 3 4 5 6 | Identifying, Assessing and Managing Health Risk. Do you see that? A. Yes. Q. If you go to page 5 of | 2 3 4 5 6 | A. Yes. Q. Where did you obtain that manuscript from? A. This was obtained directly from one of the coauthors on this study to the |
| 2 3 4 5 6 7 | Identifying, Assessing and Managing Health Risk. Do you see that? A. Yes. Q. If you go to page 5 of Exhibit 14 MS. O'DELL: Feel free to take review the document if you're | 2 3 4 5 6 7 8 | A. Yes. Q. Where did you obtain that manuscript from? A. This was obtained directly from one of the coauthors on this study to the plaintiffs' attorneys, who passed it along to me. Q. So one of the coauthors on this |
| 2 3 4 5 6 7 8 | Identifying, Assessing and Managing Health Risk. Do you see that? A. Yes. Q. If you go to page 5 of Exhibit 14 MS. O'DELL: Feel free to take review the document if you're not familiar with it, Dr. Carson. | 2 3 4 5 6 7 8 9 | A. Yes. Q. Where did you obtain that manuscript from? A. This was obtained directly from one of the coauthors on this study to the plaintiffs' attorneys, who passed it along to me. Q. So one of the coauthors on this study gave it to the plaintiffs' counsel, who |
| 2 3 4 5 6 7 8 9 10 | Identifying, Assessing and Managing Health Risk. Do you see that? A. Yes. Q. If you go to page 5 of Exhibit 14 MS. O'DELL: Feel free to take review the document if you're not familiar with it, Dr. Carson. BY MR. ZELLERS: | 2 3 4 5 6 7 8 9 10 | A. Yes. Q. Where did you obtain that manuscript from? A. This was obtained directly from one of the coauthors on this study to the plaintiffs' attorneys, who passed it along to me. Q. So one of the coauthors on this study gave it to the plaintiffs' counsel, who then gave it to you; is that right? |
| 2 3 4 5 6 7 8 9 | Identifying, Assessing and Managing Health Risk. Do you see that? A. Yes. Q. If you go to page 5 of Exhibit 14 MS. O'DELL: Feel free to take review the document if you're not familiar with it, Dr. Carson. BY MR. ZELLERS: Q. One of the underlying | 2 3 4 5 6 7 8 9 10 11 | A. Yes. Q. Where did you obtain that manuscript from? A. This was obtained directly from one of the coauthors on this study to the plaintiffs' attorneys, who passed it along to me. Q. So one of the coauthors on this study gave it to the plaintiffs' counsel, who then gave it to you; is that right? A. That's correct. |
| 2 3 4 5 6 7 8 9 10 | Identifying, Assessing and Managing Health Risk. Do you see that? A. Yes. Q. If you go to page 5 of Exhibit 14 MS. O'DELL: Feel free to take review the document if you're not familiar with it, Dr. Carson. BY MR. ZELLERS: Q. One of the underlying principles in the Health Canada | 2 3 4 5 6 7 8 9 10 11 12 | A. Yes. Q. Where did you obtain that manuscript from? A. This was obtained directly from one of the coauthors on this study to the plaintiffs' attorneys, who passed it along to me. Q. So one of the coauthors on this study gave it to the plaintiffs' counsel, who then gave it to you; is that right? A. That's correct. Q. Who was the author of this |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Identifying, Assessing and Managing Health Risk. Do you see that? A. Yes. Q. If you go to page 5 of Exhibit 14 MS. O'DELL: Feel free to take review the document if you're not familiar with it, Dr. Carson. BY MR. ZELLERS: Q. One of the underlying principles in the Health Canada decision-making framework is use a precautionary approach; is that right? A. That's right. Q. If we go to page 8, Health | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | A. Yes. Q. Where did you obtain that manuscript from? A. This was obtained directly from one of the coauthors on this study to the plaintiffs' attorneys, who passed it along to me. Q. So one of the coauthors on this study gave it to the plaintiffs' counsel, who then gave it to you; is that right? A. That's correct. Q. Who was the author of this publication, Exhibit 7, that provided the paper to plaintiffs' counsel, if you know? A. I don't recall. Q. But one of these authors; is |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | Identifying, Assessing and Managing Health Risk. Do you see that? A. Yes. Q. If you go to page 5 of Exhibit 14 MS. O'DELL: Feel free to take review the document if you're not familiar with it, Dr. Carson. BY MR. ZELLERS: Q. One of the underlying principles in the Health Canada decision-making framework is use a precautionary approach; is that right? A. That's right. Q. If we go to page 8, Health Canada defines the use of a precautionary | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | A. Yes. Q. Where did you obtain that manuscript from? A. This was obtained directly from one of the coauthors on this study to the plaintiffs' attorneys, who passed it along to me. Q. So one of the coauthors on this study gave it to the plaintiffs' counsel, who then gave it to you; is that right? A. That's correct. Q. Who was the author of this publication, Exhibit 7, that provided the paper to plaintiffs' counsel, if you know? A. I don't recall. Q. But one of these authors; is that right? |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Identifying, Assessing and Managing Health Risk. Do you see that? A. Yes. Q. If you go to page 5 of Exhibit 14 MS. O'DELL: Feel free to take review the document if you're not familiar with it, Dr. Carson. BY MR. ZELLERS: Q. One of the underlying principles in the Health Canada decision-making framework is use a precautionary approach; is that right? A. That's right. Q. If we go to page 8, Health Canada defines the use of a precautionary approach, and looking at the second sentence: A precautionary approach to decision-making emphasizes the need to take timely and appropriate preventative action, even in the | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | A. Yes. Q. Where did you obtain that manuscript from? A. This was obtained directly from one of the coauthors on this study to the plaintiffs' attorneys, who passed it along to me. Q. So one of the coauthors on this study gave it to the plaintiffs' counsel, who then gave it to you; is that right? A. That's correct. Q. Who was the author of this publication, Exhibit 7, that provided the paper to plaintiffs' counsel, if you know? A. I don't recall. Q. But one of these authors; is that right? A. It would yes. Q. Why did you not include this paper on either your reliance list or your literature list? |

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| | Page 102 | | Page 104 |
| 1 | Q. Did you have access to the | 1 | A. Yes, I have. |
| 2 | appendices and supplemental tables that are | 2 | Q. Do you know any of the authors |
| 3 | referred to in the Taher 2018 publication | 3 | of this paper, Exhibit 7? |
| 4 | which we've marked as Exhibit 7? | 4 | A. No, I don't. |
| 5 | A. The ones that are not in | 5 | Q. Do you know the source of |
| 6 | this in this document or | 6 | funding for this paper? |
| 7 | Q. Yes. | 7 | A. I I think the sources of |
| 8 | A. Those I have not thoroughly | 8 | funding are mentioned in here. |
| 9 | examined those, but I do have access to them. | 9 | Q. Other than what's mentioned in |
| 10 | Q. How do you have access to those | 10 | the paper, Exhibit 7, do you have any |
| 11 | appendices and supplemental tables? | 11 | knowledge as to the sources of funding? |
| 12 | A. They were also provided to me | 12 | A. There's a combination of |
| 13 | by plaintiffs' counsel. | 13 | sources. In part, this work is funded |
| 14 | Q. Has the Taher publication, | 14 | through the plaintiffs' attorneys. |
| 15 | which we've marked as Exhibit 7, been peer | 15 | Q. Have you communicated with any |
| 16 | reviewed? | 16 | of the authors of this paper? |
| 17 | A. It's in the process. This is a | 17 | A. No. |
| 18 | manuscript that's just been accepted for | 18 | Q. Do you know the credentials of |
| 19 | publication, so it has gone through peer | 19 | any of the authors of this paper? |
| 20 | review. | 20 | A. I haven't investigated that. |
| 21 | Q. It has gone through peer | 21 | Q. In your epidemiological work |
| 22 | review | 22 | outside of litigation, do you rely on |
| 23 | A. That's my understanding. | 23 | articles that are funded at least in part by |
| 24 | Q and Exhibit 7 is the article | 24 | plaintiffs' counsel in litigation? |
| | | | |
| | Page 103 | | Page 105 |
| 1 | that you believe will be published; is that | 1 | A. If the articles represent good |
| 2 | right? | 2 | science, I don't really pay much attention or |
| 3 | A. This is a this is a working | 3 | worry about the funding source. |
| 4 | manuscript which has gone through at least | 4 | Q. Do you know what conflicts of |
| 5 | part of the peer-review process. There may | 5 | interest any of the authors have? |
| 6 | be minor edits that occur to this, but this | 6 | A. I don't know specifically. I |
| 7 | is substantially the final article. | 7 | can't recall if they're outlined in here. |
| 8 | Q. How do you know that? | 8 | But the those are also evaluated based on |
| 9 | A. That's the general process of | 9 | the peer-review process. |
| 10 | submitting publications to peer-reviewed | 10 | Q. Do you know whether some of the |
| 11 | article journals. | 11 | authors are serving as consultants to |
| 12 | Q. How do you know I'm sorry, | 12 | plaintiffs' counsel in this litigation? |
| 13 | did you finish? | 13 | A. I know that no, I don't know |
| 14 | A. I'm finished. | 14 | that. Excuse me, I gave an incorrect answer. |
| 15 | Q. How did you know the status of | 15 | Q. Sure. Correct it, please. |
| 16 | the peer-review process with respect to | 16 | A. I mentioned that part of the |
| 17 | Exhibit 7? | 17 | funding for this research came from |
| 18 | A. Because it's been accepted for | 18 | plaintiffs' counsel, and I'm not I don't |
| 19 | publication. | 19 | know that that's the case. I was thinking of |
| 20 | Q. How do you know that? | 20 | another research report when I said that. |
| 21 | A. That, I was told by the | 21 | Q. Do you know whether or not, at |
| 22 | plaintiffs' attorneys. | 22 | least in part, funding for this paper, the |
| 23 | Q. And you've accepted that; is | 23 | Taher paper, came from plaintiffs' counsel? |
| 24 | that right? | 24 | A. No, I don't. |
| 2 1 | | | , |

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| | Page 106 | | Page 108 |
| 1 | Q. Taher, this paper, Exhibit 7, | 1 | factors is consistency; is that right? |
| 2 | concludes that asbestos contamination does | 2 | A. Yes. |
| 3 | not explain ovarian cancer, correct? | 3 | Q. You, in fact, are opining in |
| 4 | A. It does come to that general | 4 | this case that there is consistency among the |
| 5 | conclusion. | 5 | talcum powder ovarian cancer studies and |
| 6 | Q. That's a different conclusion | 6 | publications; is that right? |
| 7 | than you have formulated in this matter; is | 7 | A. Yes. |
| 8 | that right? | 8 | Q. The authors of the Taher paper |
| 9 | A. No, it's not. | 9 | disagree with that conclusion; is that right? |
| 10 | Q. You agree that asbestos | 10 | MS. O'DELL: Object to the |
| 11 | contamination does not explain ovarian | 11 | form. |
| 12 | cancer; is that right? | 12 | A. I don't think they disagree |
| 13 | A. It doesn't completely explain | 13 | with that. |
| 14 | ovarian cancer. | 14 | BY MR. ZELLERS: |
| 15 | Q. Does it explain ovarian cancer? | 15 | Q. Turn to page 25, Table 2. This |
| 16 | MS. O'DELL: Objection, asked | 16 | is, again, something that you have reviewed |
| 17 | and answered. | 17 | in preparation for your deposition; is that |
| 18 | A. I I don't believe it | 18 | |
| 19 | | 19 | right? A. Well, I didn't review it in |
| | completely explains ovarian cancer, no. BY MR. ZELLERS: | | · · · · · · · · · · · · · · · · · · · |
| 20 | | 20 | preparation for the deposition, but I've |
| 21 | Q. Turn to page 41 of Exhibit 7. | 21 | reviewed it recently. |
| 22 | Look at the last three lines of the paper. | 22 | Q. At the request of plaintiffs' |
| 23 | The authors of the Taher publication state: | 23 | counsel, correct? |
| 24 | The similarity of findings between studies | 24 | A. Yes. |
| | Page 107 | | Page 109 |
| 1 | published prior to and after this point | 1 | Q. Table 2 is a summary of |
| 2 | suggest asbestos contamination does not | 2 | evidence for each of the Hill criteria of |
| 3 | explain the positive association between | 3 | causation as applied to perineal application |
| 4 | perineal use of talc powder and the risk of | 4 | of talc and ovarian cancer. |
| 5 | ovarian cancer. | 5 | Do you see that? |
| 6 | Did I correctly state their | 6 | A. Yes. |
| 7 | conclusion? | 7 | Q. Under Consistency, they state |
| 8 | A. Well, there was a final clause | 8 | that 15 out of 30 studies reported positive |
| 9 | of the sentence, but yes, you correctly read | 9 | and significant associations; is that right? |
| 10 | that. | 10 | A. Yes. |
| 11 | Q. The Taher authors also | 11 | Q. 15 out of 30, that's 50%, |
| 12 | discussed the lack of consistency among the | 12 | right? |
| 13 | various talcum powder studies; is that right? | 13 | A. Yes. |
| 14 | MS. O'DELL: Object to the | 14 | Q. 50% is no better than a coin |
| 15 | form. | 15 | toss; is that right? |
| 16 | A. I'm sorry, could you repeat | 16 | MS. O'DELL: Object to the |
| 17 | that question? | 17 | form. |
| 18 | BY MR. ZELLERS: | 18 | A. Well, I would have to also |
| 19 | Q. Sure. | 19 | mention that the majority of those 30 studies |
| | You looked at the Bradford Hill | 20 | found positive associations. These are the |
| 2.0 | factors in formulating your opinion; is that | 21 | ones that showed positive associations that |
| 20 21 | | | ones that showed positive associations that |
| 21 | | 22 | rose to the level of statistical |
| 21 22 | right? | 22 | rose to the level of statistical |
| 21 | | 22 23 24 | rose to the level of statistical significance. |

| | Arch 1. Chip Co | ar boir, | M.D., FII.D. |
|----------|---|----------|---|
| | Page 110 | | Page 112 |
| 1 | BY MR. ZELLERS: | 1 | studies that have shown a biological gradient |
| 2 | Q. If an association is not | 2 | at especially in relation to some of the |
| 3 | statistically significant, then it can be due | 3 | subtypes of ovarian cancer. |
| 4 | to chance; is that right? | 4 | BY MR. ZELLERS: |
| 5 | A. But if it's due to chance over | 5 | Q. And I'm going to ask you about |
| 6 | and over and over again, and you keep getting | 6 | those questions, but right now I'm just |
| 7 | a positive association, that argues very | 7 | asking you about the Taher paper. |
| 8 | strongly against the chance as being the only | 8 | A. Well, I'm trying to just |
| 9 | factor. | 9 | completely answer your question. |
| 10 | Q. Can you answer my question: A | 10 | Q. I'm asking you about the Taher |
| 11 | lack of a statistically significant | 11 | paper. You understand? |
| 12 | association is consistent with or can be | 12 | A. Yes. This is all from the |
| 13 | consistent with no risk, correct? | 13 | Taher paper that I read you. |
| 14 | MS. O'DELL: Objection to form, | 14 | Q. Section 3.3.1 talks about |
| 15 | asked and answered. | 15 | evidence from human studies. That's on |
| 16 | A. If you're referring to an | 16 | page 20; is that right? |
| 17 | individual study, that might be the case; | 17 | A. Yes. |
| 18 | however, when considering the Bradford Hill | 18 | Q. This section talks about |
| 19 | criterion of consistency, you look at the | 19 | whether or not there is a consistent |
| 20 | overall body of the literature and what it | 20 | dose-response found in those studies; is that |
| 21 | | 21 | |
| 22 | tells you. There's an obvious statistical | 22 | right? MS. O'DELL: What sentence are |
| 23 | trend toward positive connection between | 23 | |
| 23 24 | talcum powder perineal application and the | 24 | you pointing to? |
| 24 | taleum powder permear application and the | 24 | MR. ZELLERS: I'm asking the |
| | Page 111 | | Page 113 |
| 1 | occurrence of ovarian cancer, and the more | 1 | doctor questions based upon his review |
| 2 | evidence that mounts, the more strongly that | 2 | of the paper, Ms. O'Dell. |
| 3 | association is proven. | 3 | MS. O'DELL: Okay. Feel free |
| 4 | BY MR. ZELLERS: | 4 | to review it, Doctor, if you need to. |
| 5 | Q. Would you say that 15 out of 30 | 5 | THE WITNESS: I'm just taking a |
| 6 | means there are consistent results across | 6 | look at this section. |
| 7 | studies? | 7 | BY MR. ZELLERS: |
| 8 | A. I think I've just explained to | 8 | Q. And if it helps you, look on |
| 9 | you how I believe there are consistent | 9 | page 21, lines 174 through 177. |
| 10 | results across studies. | 10 | (Document review.) |
| 11 | Q. The authors of the Taher paper | 11 | BY MR. ZELLERS: |
| 12 | also conclude that they do not find a | 12 | Q. I only want to ask you about |
| 13 | consistent dose-response in the papers that | 13 | two sentences. Are you ready for me to ask |
| 14 | look at perineal application of talc and | 14 | you my question? |
| 15 | ovarian cancer; is that right? | 15 | A. Just one moment, please. |
| 16 | MS. O'DELL: Object to the | 16 | Q. Sure. |
| 17 | form. | 17 | (Document review.) |
| 18 | A. Well, what they actually say is | 18 | THE WITNESS: All right, I'm |
| 19 | that about half of the epidemiological | 19 | ready for your question. |
| 20 | studies assess only one level of talc | 20 | BY MR. ZELLERS: |
| 21 | exposure, ever versus never. So it's not | 21 | Q. The Taher paper states that |
| 22 | possible from those studies to establish a | 22 | many of the studies only reported on the |
| 23 | biological gradient. | 23 | ovarian cancer risk assessing one exposure |
| 24 | However, there are a number of | 24 | category and that exposure response analyses |
| | , | 1 | 5 , 1 |
| | | | |

| were not done in all studies; is that right? | 1 | inflammation in the tissues in which it |
|---|---|---|
| A. Yes. | 2 | sequesters; is that right? |
| O. When conducted, findings from | | A. Yes. |
| | | Q. Assuming for the moment that |
| • | | talc can reach the ovaries, is it your |
| | | opinion that talc produces chronic |
| form. | | inflammation in the ovaries and that this |
| A. Yes. | | somehow leads to ovarian cancer? |
| BY MR. ZELLERS: | | A. It is my opinion that talc |
| | | produces chronic inflammation in the |
| | | epithelial tissues of the ovaries and |
| | 1 | surrounding epithelial tissues and leads to |
| | | both carcinogenesis initiation and promotion. |
| | | Q. There are no reports in the |
| • | | literature of externally applied talc leading |
| | | to inflammation, granulomas, fibrosis or |
| | 1 | adhesions anywhere along a woman's |
| | 1 | reproductive tract, correct? |
| | | MS. O'DELL: Object to the |
| | | form, asked and answered. |
| | 1 | A. Well, that's similar to the |
| | 1 | question that you asked earlier, and although |
| | | I'm not aware of experimental reports that |
| | 1 | specifically jive with that condition, |
| and other elemicals mensity the | 21 | specifically five with that condition, |
| Page 115 | | Page 117 |
| inflammatory response and stimulate cell | 1 | certainly there are a lot of theoretical |
| growth and proliferation; is that right? | 2 | reports that have been published. |
| A. Yes. | 3 | For example, Dr. Ness' article |
| Q. Other than asbestos, what | 4 | from '99 lays out the theory of inflammation |
| mineral fibers in talc intensify the | 5 | and relates that to talc exposure from |
| inflammatory response? | 6 | perineal application. |
| A. Well, the endogenous fibrous | 7 | BY MR. ZELLERS: |
| talc fibers also intensify the response. | 8 | Q. This is your colleague, |
| Q. Other than asbestos and fibrous | 9 | Dr. Ness; is that right? |
| talc fibers, what mineral fibers in talc do | 10 | A. Ness, and Coussens, when she |
| you believe intensify the inflammatory | 11 | was at Pittsburgh. |
| response? | 12 | Q. Dr. Ness, you showed her your |
| A. I'm not really able to answer | 13 | report and asked for her comments; is that |
| that question because I don't have a specific | 14 | right? |
| opinion about it. I'm not a geologist. | 15 | A. I didn't show her the report. |
| Q. Are the other chemicals that | 16 | Q. Well, you talked to her about |
| you refer to in this section fragrance | 17 | and showed her your conclusions and your |
| chemicals? | 18 | opinions; is that right? |
| A. Yes. | 19 | A. No, I talked to her about the |
| | 20 | paper. |
| | 21 | Q. Her paper? |
| | 22 | A. Yes. |
| added. | | A. 1 cs. |
| Q. You claim, again on page 7, | 23 | Q. Did you share with her that you |
| _ | Q. When conducted, findings from trend analyses were not consistent; is that correct? MS. O'DELL: Object to the form. A. Yes. BY MR. ZELLERS: Q. All right. With respect I'm done with that paper. You discuss your opinion number 1 on page 7 of your report; is that right? A. Yes. Q. You first state on page 7 that you believe talcum powder is immunogenic and produces chronic inflammation in the tissues; is that right? A. Yes. Q. You state that other components in talcum powder, including mineral fibers, asbestos, fibrous tale, carcinogenic metals and other chemicals intensify the Page 115 inflammatory response and stimulate cell growth and proliferation; is that right? A. Yes. Q. Other than asbestos, what mineral fibers in talc intensify the inflammatory response? A. Well, the endogenous fibrous tale fibers also intensify the response. Q. Other than asbestos and fibrous tale fibers, what mineral fibers in talc do you believe intensify the inflammatory response? A. I'm not really able to answer that question because I don't have a specific opinion about it. I'm not a geologist. Q. Are the other chemicals that you refer to in this section fragrance chemicals? A. Yes. Q. Any others? | Q. When conducted, findings from trend analyses were not consistent; is that correct? MS. O'DELL: Object to the form. A. Yes. BY MR. ZELLERS: Q. All right. With respect I'm done with that paper. You discuss your opinion 12 number 1 on page 7 of your report; is that right? A. Yes. Q. You first state on page 7 that you believe talcum powder is immunogenic and produces chronic inflammation in the tissues; is that right? A. Yes. Q. You state that other components in talcum powder, including mineral fibers, asbestos, fibrous talc, carcinogenic metals and other chemicals intensify the Page 115 inflammatory response and stimulate cell growth and proliferation; is that right? A. Yes. Q. Other than asbestos, what mineral fibers in talc intensify the inflammatory response? A. Well, the endogenous fibrous talc fibers also intensify the response. Q. Other than asbestos and fibrous talc fibers, what mineral fibers in talc do you believe intensify the inflammatory response? A. I'm not really able to answer that question because I don't have a specific opinion about it. I'm not a geologist. Q. Are the other chemicals that you refer to in this section fragrance chemicals? A. Yes. Q. Any others? |

| | Dago 110 | | Daga 120 |
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| | Page 118 | | Page 120 |
| 1 | in this litigation? | 1 | tale relating to that, and to my knowledge, |
| 2 | A. No, I didn't. | 2 | there are no experimental reports or case |
| 3 | Q. Did she wonder or ask why it | 3 | reports that can document that at the current |
| 4 | was that you were researching or looking into | 4 | time. |
| 5 | this issue? | 5 | Q. Granulomas, fibrosis and |
| 6 | A. She I think she may have, | 6 | adhesions do not cause ovarian cancer, |
| 7 | yeah. | 7 | correct? |
| 8 | Q. And what did you tell her? | 8 | MS. O'DELL: Object to the |
| 9 | A. I told her I had been recently | 9 | form. |
| 10 | asked to look into it. | 10 | A. The inflammatory process that |
| 11 | Q. Did you tell her that you'd | 11 | is intimately connected with granuloma |
| 12 | been asked to look into it by counsel for | 12 | formation may well be the same process that |
| 13 | plaintiffs in the talc litigation? | 13 | results in mutation and promotion of ovarian |
| 14 | A. No, I didn't. | 14 | cancer. So I I could not agree completely |
| 15 | Q. And that never came up; is that | 15 | with your statement. |
| 16 | right? | 16 | BY MR. ZELLERS: |
| 17 | A. It didn't. | 17 | Q. Is there a good scientific |
| 18 | Q. And she never talked to you or | 18 | basis today to opine that granulomas, |
| 19 | told you about her experience and her work as | 19 | fibrosis or adhesions cause ovarian cancer? |
| 20 | counsel strike that, as an expert for | 20 | MS. O'DELL: Object to the |
| 21 | plaintiffs; is that your testimony? | 21 | form. |
| 22 | A. Yes. It was a very brief | 22 | A. No, I don't think they cause |
| 23 | conversation. | 23 | ovarian cancer. |
| 24 | Q. If up to 50% of all U.S. women | 24 | /// |
| | | | |
| | Page 119 | | Page 121 |
| 1 | have used genital talc, shouldn't there be | 1 | BY MR. ZELLERS: |
| 2 | studies which have shown inflammation, | 2 | Q. Would you agree that not all |
| 3 | granulomas, fibrosis or adhesions in a | 3 | inflammatory conditions lead to cancer? |
| 4 | woman's reproductive tract? | 4 | A. Yes. |
| 5 | MS. O'DELL: Object to the | 5 | Q. It's true that all of us |
| 6 | form. | 6 | experience inflammatory reactions of one sort |
| 7 | A. Well, there are studies that | 7 | or another, including chronic conditions, |
| 8 | show those things. | 8 | that do not lead to cancer, correct? |
| 9 | BY MR. ZELLERS: | 9 | A. That's correct. Although there |
| 10 | Q. Please, tell me the published | 10 | is a strong relationship between inflammatory |
| 11 | studies that demonstrate inflammation, | 11 | processes and the occurrence of cancers, and |
| 12 | granulomas, fibrosis or adhesions in a | 12 | some of those inflammatory diseases that |
| 13 | woman's reproductive tract from externally | 13 | you're referring to also have associations |
| 14 | applied talc? | 14 | with increased rates of cancers. |
| 15 | A. Well, you're adding a new | 15 | MR. ZELLERS: Move to strike as |
| 16 | condition now. | 16 | nonresponsive. |
| 17 | Q. I'm sorry if I didn't add that | 17 | BY MR. ZELLERS: |
| 18 | before. | 18 | Q. Rheumatoid arthritis is an |
| 19 | A. There are multiple studies that | 19 | inflammatory condition; is that right? |
| 20 | show inflammation and other inflammatory | 20 | A. Yes, it is. |
| 21 | reactions in connection with the occurrence | 21 | Q. Does it increase the risk of |
| 22 | of ovarian cancer. | 22 | ovarian cancer? |
| | | 23 | A. I think I it does it's |
| 2.3 | | | |
| 23 24 | The piece that you're now asking for is the external application of | 24 | not associated with ovarian cancer, but I |

| | Alch I. Chip Ca | | M.D., FII.D. |
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| | Page 122 | | Page 124 |
| 1 | think it may be associated with other | 1 | A. This is a list that I've put |
| 2 | cancers. | 2 | together of some of the studies I've |
| 3 | Q. Does strike that. | 3 | considered and how they relate to things I |
| 4 | Is psoriasis an inflammatory | 4 | might testify to today. |
| 5 | condition? | 5 | Q. Why did you not tell me about |
| 6 | A. Generally, it is. | 6 | your list that you brought with you today |
| 7 | Q. Is it associated with an | 7 | before now? |
| 8 | increased risk of ovarian cancer? | 8 | A. Well, I'm telling you about it |
| 9 | A. Not that I'm aware. | 9 | now. |
| 10 | Q. In your report you state that | 10 | Q. My question is why did you not, |
| 11 | inflammation is a normal body process that | 11 | when I asked you what you brought to the |
| 12 | leads to the thwarting of infection and rapid | 12 | deposition today, not take the list out and |
| 13 | healing; is that right? | 13 | show us the list? |
| 14 | A. That's correct. | 14 | A. I didn't think of it. |
| 15 | Q. If your inflammation theory is | 15 | Q. Okay. We'll mark your list as |
| 16 | correct, why doesn't inflammation generally, | 16 | Deposition Exhibit 15. |
| 17 | such as in pelvic inflammatory disease, cause | 17 | (Carson Deposition Exhibit 15 |
| 18 | ovarian cancer? | 18 | marked.) |
| 19 | A. It may do so. | 19 | BY MR. ZELLERS: |
| 20 | Q. You are opining under oath here | 20 | Q. These are a number of notes, |
| 21 | that pelvic inflammatory disease causes | 21 | four pages of notes. Are these all your |
| 22 | ovarian cancer? | 22 | notes? |
| 23 | A. I think there are experts who | 23 | A. Yes. |
| 24 | have concluded that. | 24 | Q. First page has got a section of |
| | Page 123 | | Page 125 |
| 1 | Q. What study are you relying on | 1 | articles on asbestos and ovarian cancer; is |
| 2 | for that opinion or statement? | 2 | that right? |
| 3 | A. That's not part of the opinions | 3 | A. Yes. |
| 4 | that I've been asked to consider in this | 4 | Q. It also has inflammation and |
| 5 | in this case. | 5 | cancer and a number of studies; is that |
| 6 | Q. As you sit here, can you cite | 6 | right? |
| 7 | me a publication or a study that finds that | 7 | A. Yes. |
| 8 | pelvic inflammatory disease causes ovarian | 8 | Q. Second page has got cohort, |
| 9 | cancer? | 9 | where you've listed out the four cohort |
| 10 | MS. O'DELL: Object to the | 10 | studies; is that right? |
| 11 | form. | 11 | A. Yes. |
| 12 | A. Well, I have I have a list | 12 | Q. Beneath that are the |
| 13 | of studies that relate inflammation to | 13 | meta-analyses where you've listed those out |
| 14 | ovarian cancer and other cancers. | 14 | and made some notes on those, correct? |
| 15 | BY MR. ZELLERS: | 15 | A. Yes. |
| 16 | Q. Can you name me a study or a | 16 | Q. The back page of the second |
| 17 | publication? | 17 | page has got a listing of a number of the |
| 18 | A. Okay. I think I have my list | 18 | case-control studies, correct? |
| 19 | here. | 19 | A. Yes. Those are duplicated on |
| 20 | Q. You brought other materials | 20 | another page. |
| 21 | with you? | 21 | Q. The third page has got a |
| 22 | A. I brought this list. | 22 | section on migration and studies that you're |
| 0.0 | | | |
| 23 | Q. All right. Well, what list are | 23 | looking at for that proposition, correct? |
| 23 24 | Q. All right. Well, what list are you pulling out of your pocket? | 23 | A. Correct. |

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| | Page 126 | | Page 128 |
| 1 | Q. Underneath that, ovarian cancer | 1 | authors conclude that pelvic inflammatory |
| 2 | risk; is that right? | 2 | disease causes ovarian cancer? Do you |
| 3 | A. Yes. | 3 | believe each of the authors in the studies |
| 4 | Q. Underneath that, talc and other | 4 | that you've identified, that their studies |
| 5 | cancer; is that right? | 5 | stand for that proposition? |
| 6 | A. Yes. | 6 | MS. O'DELL: Object to form, |
| 7 | Q. And then on the last page, | 7 | asked and answered. |
| 8 | page 4, is a listing of the case-control | 8 | A. I think all of the studies that |
| 9 | studies with the odds ratios and confidence | 9 | I've identified for this question do allude |
| 10 | intervals; is that right? | 10 | to that, yes. |
| 11 | A. For the most part, yes. | 11 | BY MR. ZELLERS: |
| 12 | Q. All right. So looking now at | 12 | Q. That pelvic inflammatory |
| 13 | your list of studies that you have prepared, | 13 | disease causes ovarian cancer, correct? |
| 14 | which study demonstrates or supports the | 14 | A. That it is a it's a factor, |
| 15 | proposition that pelvic inflammatory disease | 15 | yes. |
| 16 | causes ovarian cancer? | 16 | Q. It's a cause. That's what they |
| 17 | A. Looking through here, I don't | 17 | • |
| 18 | have that item specifically in my notes, but | 18 | state in those papers, right? |
| 19 | | 19 | MS. O'DELL: Object to the |
| 20 | I'm just using my notes to refresh my memory | 20 | form. BY MR. ZELLERS: |
| 21 | about the individual research report. I | 21 | |
| | think the Coussens and Werb paper from 2010 | 1 | Q. That's your testimony? |
| 22 | talks about general mechanisms of | 22 | MS. O'DELL: Excuse me, |
| 23 | inflammation in relation to the occurrence of | 23 | misstates his testimony. Object to |
| 24 | ovarian cancer. | 24 | the form. |
| | Page 127 | | Page 129 |
| 1 | And there's the Ness and | 1 | A. I would say it's a factor and |
| 2 | Cottreau paper from '99. | 2 | leave it at that. |
| 3 | Okada has discussed it in the | 3 | BY MR. ZELLERS: |
| 4 | 2007 paper. And there's a paper from 2001 | 4 | Q. All right. Are you familiar |
| 5 | which is Balkwill and Mantovani which | 5 | with pleurodesis? |
| 6 | discusses the relationship between talc and | 6 | A. I am. |
| 7 | ovarian cancer and also discusses the | 7 | Q. Does a pleurodesis cause |
| 8 | relationship to other sources of | 8 | cancer? |
| 9 | inflammation. | 9 | A. It is not known to, although it |
| 10 | Q. Each of those papers that | 10 | might. |
| 11 | you've identified you believe state that | 11 | Q. Are you familiar with the |
| 12 | pelvic inflammatory disease is a cause of | 12 | study, 1979, A survey of the long-term |
| 13 | ovarian cancer, correct? | 13 | effects of talc and kaolin pleurodesis? |
| 14 | MS. O'DELL: Object to the | 14 | A. Can tell me who the author of |
| 15 | form. | 15 | that was? |
| 16 | A. Well, I don't think they state | 16 | Q. Sure. The author is this is |
| | that in so many words, but if you read the | 17 | from the Research Committee of the British |
| | | +/ | |
| 17 | | 1 1 0 | |
| 17 18 | paper and you understand that what pelvic | 18 | Thoracic Association. The members of the |
| 17 18 19 | paper and you understand that what pelvic inflammatory disease is and its relationship | 19 | subcommittee were Chappell, Johnson, Charles, |
| 17 18 19 20 | paper and you understand that what pelvic inflammatory disease is and its relationship to inflammatory processes in general, yes, | 19 20 | subcommittee were Chappell, Johnson, Charles, Wagner, Seal, Berry and Nicholson. |
| 17 18 19 20 21 | paper and you understand that what pelvic inflammatory disease is and its relationship to inflammatory processes in general, yes, that's what they're saying. | 19 20 21 | subcommittee were Chappell, Johnson, Charles, Wagner, Seal, Berry and Nicholson. Are you familiar with that |
| 17 18 19 20 21 22 | paper and you understand that what pelvic inflammatory disease is and its relationship to inflammatory processes in general, yes, that's what they're saying. BY MR. ZELLERS: | 19 20 21 22 | subcommittee were Chappell, Johnson, Charles, Wagner, Seal, Berry and Nicholson. Are you familiar with that paper? |
| 17 18 19 20 21 | paper and you understand that what pelvic inflammatory disease is and its relationship to inflammatory processes in general, yes, that's what they're saying. | 19 20 21 | subcommittee were Chappell, Johnson, Charles, Wagner, Seal, Berry and Nicholson. Are you familiar with that |

| | Page 130 | | Page 132 |
|--|--|--|---|
| 1 | Q. We'll take a look at it. We'll | 1 | form. |
| 2 | mark it as Deposition Exhibit 16. | 2 | A. I think that was the hypothesis |
| 3 | (Carson Deposition Exhibit 16 | 3 | of those research reports. |
| 4 | marked.) | 4 | BY MR. ZELLERS: |
| 5 | A. Thank you. | 5 | Q. And, in fact, the NSAID studies |
| 6 | MS. O'DELL: Thank you. | 6 | do not find a consistent causal reduction in |
| 7 | BY MR. ZELLERS: | 7 | the risk of ovarian cancer; is that right? |
| 8 | Q. This was a study that looked at | 8 | A. I think that's correct. |
| 9 | the association between pleurodesis and lung | 9 | Q. In your report you also state |
| 10 | cancer; is that right? | 10 | that studies show that use of cornstarch |
| 11 | A. Yes. | 11 | instead of talcum powder reduces the risk of |
| 12 | Q. It's a study that you cite on | 12 | ovarian cancer; is that right? |
| 13 | page 1 of your literature list; is that | 13 | A. Yes. |
| 14 | right? | 14 | Q. If inflammation causes cancer, |
| 15 | A. Okay. Yes. | 15 | why would cornstarch be a superior |
| 16 | Q. So you've read it; is that | 16 | alternative to talc? |
| 17 | right? | 17 | A. The reason is that cornstarch, |
| 18 | A. I have. | 18 | being a biological product, is much it |
| 19 | Q. You've considered it; is that | 19 | does have a rapid clearance from the body, |
| 20 | right? | 20 | even when sequestered, in comparison with a |
| 21 | A. Yes. | 21 | mineral substance like talc. |
| 22 | Q. They looked at 210 patients | 22 | Q. Well, in fact, cornstarch |
| 23 | that underwent a pleurodesis with talc or | 23 | causes or increases the risk of inflammation, |
| 24 | kaolin 14 to 40 years before; is that right? | 24 | granulomas, fibrosis and adhesions, correct? |
| | | | |
| | Page 131 | | Page 133 |
| 1 | | 1 | |
| 1 2 | A. That's correct. | 1 2 | A. It may, yes. |
| 2 | A. That's correct.Q. And they found that there was | 2 | A. It may, yes. Q. Just like you claim talcum |
| | A. That's correct.Q. And they found that there wasno increased incidence of lung cancer and no | 2 3 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, |
| 2 3 | A. That's correct.Q. And they found that there was | 2 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that |
| 2 3 4 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? A. That's correct. | 2 3 4 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that right? |
| 2 3 4 5 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? | 2 3 4 5 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that |
| 2 3 4 5 6 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? A. That's correct. Q. Why don't well, strike that. You're aware of the studies | 2 3 4 5 6 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that right? MS. O'DELL: Object to the |
| 2 3 4 5 6 7 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? A. That's correct. Q. Why don't well, strike that. | 2 3 4 5 6 7 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that right? MS. O'DELL: Object to the form. |
| 2 3 4 5 6 7 8 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? A. That's correct. Q. Why don't well, strike that. You're aware of the studies that have looked at antiinflammatory drugs | 2 3 4 5 6 7 8 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that right? MS. O'DELL: Object to the form. A. I think you are you're |
| 2 3 4 5 6 7 8 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? A. That's correct. Q. Why don't well, strike that. You're aware of the studies that have looked at antiinflammatory drugs and aspirin use with respect to whether or | 2 3 4 5 6 7 8 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that right? MS. O'DELL: Object to the form. A. I think you are you're parsing terms here. That list of things were |
| 2 3 4 5 6 7 8 9 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? A. That's correct. Q. Why don't well, strike that. You're aware of the studies that have looked at antiinflammatory drugs and aspirin use with respect to whether or not they're associated with let me | 2 3 4 5 6 7 8 9 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that right? MS. O'DELL: Object to the form. A. I think you are you're parsing terms here. That list of things were your words. I was agreeing with the |
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| 2 3 4 5 6 7 8 9 10 11 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? A. That's correct. Q. Why don't well, strike that. You're aware of the studies that have looked at antiinflammatory drugs and aspirin use with respect to whether or not they're associated with let me withdraw that. Are you familiar with the NSAID and aspirin use studies relating to the incidence of ovarian cancer in chronic users? | 2 3 4 5 6 7 8 9 10 11 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that right? MS. O'DELL: Object to the form. A. I think you are you're parsing terms here. That list of things were your words. I was agreeing with the relationship between talc and inflammation in ovarian epithelial tissue and the production |
| 2 3 4 5 6 7 8 9 10 11 12 13 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? A. That's correct. Q. Why don't well, strike that. You're aware of the studies that have looked at antiinflammatory drugs and aspirin use with respect to whether or not they're associated with let me withdraw that. Are you familiar with the NSAID and aspirin use studies relating to the | 2 3 4 5 6 7 8 9 10 11 12 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that right? MS. O'DELL: Object to the form. A. I think you are you're parsing terms here. That list of things were your words. I was agreeing with the relationship between talc and inflammation in ovarian epithelial tissue and the production or granulomas. I did not discuss the |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? A. That's correct. Q. Why don't well, strike that. You're aware of the studies that have looked at antiinflammatory drugs and aspirin use with respect to whether or not they're associated with let me withdraw that. Are you familiar with the NSAID and aspirin use studies relating to the incidence of ovarian cancer in chronic users? A. I'm familiar with some of those, yes. | 2 3 4 5 6 7 8 9 10 11 12 13 14 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that right? MS. O'DELL: Object to the form. A. I think you are you're parsing terms here. That list of things were your words. I was agreeing with the relationship between talc and inflammation in ovarian epithelial tissue and the production or granulomas. I did not discuss the relationship between talc and adhesions or fibrosis. There was one other thing on your list. |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | A. That's correct. Q. And they found that there was no increased incidence of lung cancer and no cases of mesothelioma; is that right? A. That's correct. Q. Why don't well, strike that. You're aware of the studies that have looked at antiinflammatory drugs and aspirin use with respect to whether or not they're associated with let me withdraw that. Are you familiar with the NSAID and aspirin use studies relating to the incidence of ovarian cancer in chronic users? A. I'm familiar with some of those, yes. Q. If your theory is correct that | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | A. It may, yes. Q. Just like you claim talcum powder increases the risk of inflammation, granulomas, fibrosis and adhesions; is that right? MS. O'DELL: Object to the form. A. I think you are you're parsing terms here. That list of things were your words. I was agreeing with the relationship between talc and inflammation in ovarian epithelial tissue and the production or granulomas. I did not discuss the relationship between talc and adhesions or fibrosis. There was one other thing on your list. BY MR. ZELLERS: |
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| | Page 134 | | Page 136 |
|--|--|--|---|
| 1 | presented an unreasonable and substantial | 1 | Q. Why do you have to have a |
| 2 | risk of illness or injury and that that risk | 2 | special definition of "oxidative stress"? |
| 3 | cannot be corrected or eliminated by | 3 | I'm asking simply: Is there a publication or |
| 4 | labeling, correct? | 4 | a study which documents that oxidative stress |
| 5 | A. I don't know the specific | 5 | is involved in the development of ovarian |
| 6 | language. It looks like you're reading from | 6 | cancer? |
| 7 | a Federal Register document. | 7 | MS. O'DELL: Object to the |
| 8 | The main reason that cornstarch | 8 | form. |
| 9 | has been banned as a lubricant in gloves is | 9 | A. Sure. |
| 10 | because of the potential for transmission of | 10 | BY MR. ZELLERS: |
| 11 | primarily respiratory problems through | 11 | Q. And what paper are you going to |
| 12 | inhalation, mostly by co-workers, not by | 12 | point me to? |
| 13 | patients. | 13 | A. Well, I'll point you to the |
| 14 | Q. You do agree that cornstarch | 14 | Ness paper to begin with, because it was one |
| 15 | has been banned by the FDA for use in | 15 | of the earlier papers that related oxidative |
| 16 | surgical gloves; is that right? | 16 | stress from tale to the occurrence of ovarian |
| 17 | A. All powdered gloves have been | 17 | cancer. But the relationship between |
| 18 | essentially banned from hospitals and | 18 | inflammation, which essentially is the source |
| 19 | | 19 | of the oxidative stress, and cancer goes all |
| 20 | operating rooms now. Q. You also talk about | 20 | • |
| 21 | | 21 | the way back into the 19th Century in terms |
| 22 | inflammation and oxidative stress; is that | 22 | of its proposal as a rationale. Q. Is oxidative stress a variation |
| | right? | 23 | ~ |
| 23 | A. Yes. | | of inflammation as you're using that term |
| 24 | Q. Does the presence of oxidative | 24 | relating to a potential cause of ovarian |
| | | | |
| | Page 135 | | Page 137 |
| 1 | | 1 | |
| 1 2 | stress in a tissue indicate that cancer will | 1 2 | cancer? |
| 2 | stress in a tissue indicate that cancer will develop in that tissue? | 2 | cancer? A. It's a component of |
| 2 3 | stress in a tissue indicate that cancer will develop in that tissue? A. No. | 2 3 | cancer? A. It's a component of inflammation. |
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|---|-------------------------|
| | Page 140 |
| 1 regarding my professional understanding and 1 reports, the epidemiol | ogy first, is looking |
| 2 training. 2 at the relationship bety | ween perineal use of |
| 3 BY MR. ZELLERS: 3 dusting powders, talcu | m powders and ovarian |
| 4 Q. You've never been involved in 4 cancer. | • |
| 5 terms of any research or publication on the 5 Although ther | e have been |
| 6 subject of oxidative stress and any 6 efforts in some of thos | |
| 7 association with ovarian cancer, correct? 7 characterize the propo | rtion or the |
| 8 A. Not in terms of ovarian cancer, 8 ingredients that would | |
| 9 no. 9 fibers, that's not done | |
| 10 Q. You have not been involved in 10 it's not ruled out in any | |
| 11 any research or publication relating to the 11 The also, th | |
| subject of inflammation and its association 12 studies that have been | |
| 13 with ovarian cancer, correct? 13 testing, for example, or | - |
| 14 A. No. All right. Yes, correct. 14 themselves are replete | |
| | owders that are fibrous |
| 16 You claim that the presence of 16 in nature. | |
| | S: Move to strike as |
| the carcinogenic effect of tale; is that 18 nonresponsive. | |
| 19 right? 19 BY MR. ZELLERS: | |
| 6 | ve that all talcum |
| 21 Q. Is that statement different 21 powder products that a | |
| 22 from the statement directly above where you 22 contain asbestos? | |
| 23 allege that asbestos and mineral fibers 23 MS. O'DELL: | Object to the |
| 24 intensify the inflammatory response and 24 form. | J |
| | |
| Page 139 | Page 141 |
| 1 stimulate the cell growth and proliferation? 1 A. I don't know | , |
| 2 A. It's not different, no. 2 BY MR. ZELLERS: | |
| 3 Q. Are your opinions dependent on 3 Q. Does it matt | er to your opinion |
| 4 talc containing carcinogenic asbestos and/or 4 as to whether or not the | ne talcum powder |
| 5 fibrous tale? 5 products, and particul | arly the talcum powder |
| 6 A. No. 6 products involved in t | |
| 7 Q. Do you believe that talcum 7 asbestos? | |
| 8 powder without asbestos causes ovarian 8 A. I wouldn't ha | ave a way to be |
| 9 cancer? 9 able to answer that ye | es or no. |
| 10 A. I believe talcum powder causes 10 Q. Do you str | |
| | ched a conclusion |
| done on talcum powder that has been shown not 12 as to whether or not the | |
| to contain asbestos. 13 products involved in t | |
| 14 Q. Your assumption that you have 14 fibrous talc? | |
| | nost of them do. |
| | he talcum powder |
| 17 right? 17 contain fibrous tale or | * |
| 18 A. No. 18 A. Certainly a l | |
| · | r your conclusion |
| as to whether or not talcum powder contains 20 that the talcum powder | |
| 21 either asbestos or fibrous tale? 21 contains fibrous tale i | |
| 22 MS. O'DELL: Object to the 22 that plaintiffs' attorne | |
| 1 | : Object to the |
| 24 A. Looking at the research 24 form. | • |
| 2. 11. Dooking at the research | |

| | Page 142 | | Page 144 |
|---|---|--|--|
| 1 | | 1 | MS. O'DELL: Object to the |
| 2 | A. Yes. Also Longo's publications | 2 | form. |
| 3 | and reports. BY MR. ZELLERS: | 3 | A. That wasn't my charge. I defer |
| 4 | Q. You have reviewed the Longo | 4 | to the other experts in this case. |
| 5 | reports; is that right? | 5 | BY MR. ZELLERS: |
| 6 | A. Yes. | 6 | Q. Do you have an opinion on what |
| 7 | Q. Have you ever met with him? | 7 | type of asbestos you believe is in the talcum |
| 8 | A. No. | 8 | powder products at issue in this case? |
| 9 | Q. Do you know his qualifications? | 9 | A. Well, there have been various |
| 10 | A. I looked at his qualifications | 10 | types shown, but I think for the most part |
| 11 | at one point, but I don't recall exactly what | 11 | it's tremolite and anthophyllite. |
| 12 | it is at this stage. | 12 | Q. Are you familiar with |
| 13 | Q. Ever hear of him before this | 13 | crocidolite? |
| 14 | lawsuit, your getting involved in the talc | 14 | A. Yes. |
| 15 | litigation back in October of 2018? | 15 | Q. Is crocidolite found in talcum |
| 16 | A. No. | 16 | powder or baby powder? |
| 17 | | 17 | A. It's not commonly found in it. |
| 18 | Q. Have you reviewed any of | 18 | Q. You believe that the |
| 19 | Longo's testing where he did not find asbestos? | 19 | • |
| 20 | | 20 | asbestos types of asbestos that may be in the talcum powder at issue in this case is |
| 21 | A. I the only thing I've | 21 | |
| 22 | reviewed are what's present in those reports that I cited. | 22 | tremolite and acidolite [sic]? |
| | | 23 | MS. O'DELL: Objection. |
| 23 | Q. Were you provided by counsel | 23 | A. Anthophyllite. There are |
| 24 | for plaintiffs with any testing reports from | 24 | others found, but you asked for most common. |
| | Page 143 | | Page 145 |
| 1 | Longo where he did not find asbestos? | | |
| _ | | 1 | BY MR. ZELLERS: |
| 2 | A. There are some of those listed | 1 2 | Q. Most common you believe are |
| 2 3 | - | | |
| | A. There are some of those listed | 2 | Q. Most common you believe are |
| 3 | A. There are some of those listed in his reports. | 2 | Q. Most common you believe are tremolite and anthophyllite? |
| 3 4 | A. There are some of those listed in his reports. Q. Have you reviewed the FDA's | 2 3 4 | Q. Most common you believe are tremolite and anthophyllite?A. Anthophyllite. |
| 3 4 5 | A. There are some of those listed in his reports. Q. Have you reviewed the FDA's testing of talcum powder products? | 2 3 4 5 | Q. Most common you believe are tremolite and anthophyllite?A. Anthophyllite.Q. Anthophyllite. Those two; is |
| 3 4 5 6 | A. There are some of those listed in his reports. Q. Have you reviewed the FDA's testing of talcum powder products? A. The FDA didn't really do much | 2 3 4 5 6 | Q. Most common you believe are tremolite and anthophyllite?A. Anthophyllite.Q. Anthophyllite. Those two; is that right? |
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| 3 4 5 6 7 8 | A. There are some of those listed in his reports. Q. Have you reviewed the FDA's testing of talcum powder products? A. The FDA didn't really do much testing of talcum powder products. Q. Have you reviewed the FDA's | 2 3 4 5 6 7 8 | Q. Most common you believe are tremolite and anthophyllite? A. Anthophyllite. Q. Anthophyllite. Those two; is that right? A. Yes. Q. What types of asbestos are associated with ovarian cancer? |
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| 1 2 3 4 5 | Page 146 cement products and plasters, so the Q. What type of asbestos, if you know? | 1 2 | Page 148 But based on my current understanding, I don't believe they've ever |
|-----------------------|---|----------------|---|
| 2 3 4 | Q. What type of asbestos, if you | | |
| 3 4 | Q. What type of asbestos, if you | 2 | |
| 4 | | | |
| | | 3 | been totally successful in doing so. |
| | A. That would have been primarily | 4 | So in answer to your question, |
| | amphibole asbestos types, which would include | 5 | which I think was, was there ever a point in |
| 6 | crocidolite and tremolite and anthophyllite, | 6 | time where you believe the talcum powder |
| 7 | amosite is in that category. | 7 | products involved in this case were not |
| 8 | Bertolotti in 2008 published a | 8 | contaminated with asbestos, no. |
| 9 | report actually, there were several | 9 | BY MR. ZELLERS: |
| 10 | reports that resulted from the Eternit | 10 | Q. You cite in your report, |
| 11 | factory studies in Casale Monferrato in | 11 | page 5, to two exhibits to the depositions of |
| 12 | Italy, which was a plant that manufactured | 12 | John Hopkins and Julie Pier in support of |
| 13 | cement sheet and corrugated tubing, and there | 13 | your opinion that talcum powder products |
| 14 | were a number of studies that showed elevated | 14 | contain asbestos; is that right? |
| 15 | relative risks in persons exposed to asbestos | 15 | A. That's correct. |
| 16 | in that work, and that would also have been | 16 | Q. Looking at page 5, footnote 1, |
| 17 | amphibole asbestos types. | 17 | you cite to Exhibit Hopkins-28 in the Hopkins |
| | * | | |
| 18 | Q. The studies that you've recited | 18 | deposition and Exhibit Pier-47 in the Pier |
| 19 | for us, those are all occupational studies; | 19 | deposition; is that right? |
| 20 | is that right? | 20 | A. That's correct. |
| 21 | A. Yes. I've got a lot more. | 21 | Q. Are you aware that those |
| 22 | Q. Well, and it's on your list, | 22 | exhibits were created by plaintiffs' counsel? |
| 23 | which we marked as Exhibit 15; is that right? | 23 | MS. O'DELL: Objection to form. |
| 24 | A. That's correct. | 24 | A. I didn't I I don't know |
| | Page 147 | | Page 149 |
| 1 | Q. All right. Those studies did | 1 | that and doesn't matter to me. |
| 2 | not involve the perineal application of | 2 | BY MR. ZELLERS: |
| 3 | talcum powder products; is that right? | 3 | Q. Do you know where the data in |
| 4 | MS. O'DELL: Object to the | 4 | those exhibits come from? |
| 5 | form. | 5 | A. Well, they come from the two |
| 6 | A. It was not a factor in the | 6 | persons who are testifying who have produced |
| 7 | study. | 7 | them from their mostly from their business |
| 8 | BY MR. ZELLERS: | 8 | records. |
| 9 | Q. Crocidolite and chrysotile | 9 | Q. Okay. So you believe that |
| 10 | asbestos has generally not been found in | 10 | Exhibit Hopkins-28 to the Hopkins deposition |
| 11 | talcum powder products, correct? | 11 | and Exhibit Pier-47 to the Pier deposition |
| 12 | A. In general, that's the case. | 12 | come from the business records of the |
| 13 | Q. Was there ever a point in time | 13 | Johnson & Johnson Company and Imerys? |
| 14 | where you believe that the talcum powder | 14 | A. From the most part, there was |
| 15 | products involved in this case were not | 15 | a there was a table that was constructed |
| 16 | contaminated with asbestos? | 16 | during the deposition which was sort of a |
| 17 | MS. O'DELL: Objection to form, | 17 | piece of summary information. I don't know |
| 18 | vague as to time. | 18 | if it's an exhibit to the deposition or if |
| | A. My understanding is that Imerys | 19 | it's something separate from that, but it |
| 19 | and their predecessors and Johnson & Johnson | 20 | would not have been from business records, |
| 19 20 | and their dieuceesons and joinison & joinison | _ <u>_</u> _ U | |
| 20 | | 21 | but occurred at the denocition itself |
| 20 21 | made significant efforts to reduce components | 21 | but occurred at the deposition itself. |
| 20 21 22 | made significant efforts to reduce components of asbestos in their talc products over a | 22 | MS. O'DELL: Excuse me, |
| 20 21 | made significant efforts to reduce components | | |

| | Page 150 | | Page 152 |
|--|---|--|--|
| 1 | Exhibit Hopkins-28 and Pier | 1 | exhibits you're looking at, |
| 2 | Exhibit Pier-47 in answering these | 2 | Exhibit Hopkins-28 and Exhibit Pier-47, were |
| 3 | questions? | 3 | included in talcum powder product sold by J&J |
| 4 | THE WITNESS: If that's easy to | 4 | Consumer Products? |
| 5 | do, yes. | 5 | MS. O'DELL: Objection to the |
| 6 | MS. O'DELL: It's very easy to | 6 | form, asked and answered. |
| 7 | do. This is a copy of | 7 | A. No, I don't. |
| 8 | Exhibit Hopkins-28 of the Hopkins | 8 | BY MR. ZELLERS: |
| 9 | deposition and Exhibit Pier-47 of the | 9 | Q. Have you confirmed strike |
| 10 | Pier deposition. | 10 | that. |
| 11 | THE WITNESS: Okay. | 11 | What amount of asbestos |
| 12 | BY MR. ZELLERS: | 12 | exposure is associated with ovarian cancer? |
| 13 | Q. Dr. Carson? | 13 | A. Any. |
| 14 | A. Yes, sir. | 14 | Q. Your testimony under oath is |
| 15 | Q. Did you make any effort to | 15 | that any asbestos exposure is associated with |
| 16 | investigate the alternative explanations for | 16 | ovarian cancer? |
| 17 | the data that's contained in those two | 17 | A. Any asbestos exposure and any |
| 18 | exhibits, Exhibit Hopkins-28 and | 18 | perineal application of talcum powder is |
| 19 | Exhibit Pier-47? | 19 | associated with an increased risk for ovarian |
| 20 | A. Alternative explanations, I'm | 20 | cancer. |
| 21 | not sure what you mean by that. | 21 | Q. The amount of asbestos |
| 22 | Q. If the Johnson & Johnson | 22 | contained or allegedly contained within |
| 23 | company companies' scientists and Imerys' | 23 | the baby powder is of no consequence, |
| 24 | scientists opined that those tests don't | 24 | correct? |
| | Da 151 | | D 152 |
| | | | |
| | Page 151 | | Page 153 |
| 1 | actually show asbestos, you have no expertise | 1 | MS. O'DELL: Object to the |
| 1 2 | actually show asbestos, you have no expertise to dispute that, do you? | 1 2 | MS. O'DELL: Object to the form. |
| | actually show asbestos, you have no expertise | | MS. O'DELL: Object to the form. A. No, it is of consequence, and a |
| 2 3 4 | actually show asbestos, you have no expertise to dispute that, do you? MS. O'DELL: Object to the form. | 2 3 4 | MS. O'DELL: Object to the form. A. No, it is of consequence, and a larger dose would be a greater hazard. But |
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| | Page 154 | | Page 156 |
|--|--|--|---|
| 1 | asbestos can produce all types of ovarian | 1 | A. That's background information |
| 2 | cancer; is that correct? | 2 | and my personal knowledge. |
| 3 | MS. O'DELL: Object to the | 3 | Q. You are not going to give an |
| 4 | form. | 4 | opinion on mines, mining or milling in this |
| 5 | A. I suspect that some forms of | 5 | case; is that right? |
| 6 | asbestos are much more carcinogenic than | 6 | A. Depends on the questions. |
| 7 | others, and that would be true for the | 7 | Q. Well, as you sit here today, do |
| 8 | ovaries as well as other structures in the | 8 | you intend to give opinions on talc mining, |
| 9 | body. | 9 | mines or milling? |
| 10 | BY MR. ZELLERS: | 10 | A. It wasn't my intention, but if |
| 11 | Q. Are you able to distinguish for | 11 | asked a question that I think I'm qualified |
| 12 | us what types of asbestos cause or are | 12 | to answer, I'll try to do it. |
| 13 | associated with what types of ovarian cancer? | 13 | Q. Are you an expert on talc |
| 14 | A. I don't think I'm able to make | 14 | mining and milling? |
| 15 | those distinctions, but the studies I just | 15 | A. I'm an expert on industrial |
| 16 | read to you regarding the relationship | 16 | processes in general, and if I have some |
| 17 | between asbestos and ovarian cancer and the | 17 | personal understanding of talc mining and |
| 18 | others on my list do indicate that there are, | 18 | milling. |
| 19 | for example, in the Acheson study, there | 19 | Q. Have you been personally |
| 20 | were there was a positive relationship | 20 | involved in talc mining and milling? |
| 21 | between both crocidolite and chrysotile | 21 | A. I haven't been involved in it; |
| 22 | exposure, and the crocidolite had a greater | 22 | I've observed it. |
| 23 | effect on ovarian cancer than the chrysotile, | 23 | Q. Do you consider yourself to be |
| 24 | but did not have they were both positive. | 24 | an expert in talc mining and milling? |
| | Page 155 | | Page 157 |
| 1 | Q. What type of ovarian cancer? | 1 | MS. O'DELL: Objection, asked |
| 2 | A. That, I don't know at the | 2 | and answered. |
| 3 | moment. I could look in the paper and see if | 3 | A. No, I don't. |
| 4 | it's listed. | 4 | BY MR. ZELLERS: |
| 5 | Q. There are a number of different | 5 | Q. You have no independent basis |
| 6 | types of ovarian cancer; is that right? | 6 | to say that cosmetic talc contains asbestos, |
| 7 | A. That's correct. | 7 | correct? |
| 8 | Q. You are not familiar with J&J | 8 | MS. O'DELL: Object to the |
| 9 | Consumer Products' procedures for milling or | 9 | form. |
| 10 | mining; is that right? | 10 | A. What do you mean by independent |
| 11 | MS. O'DELL: Object to the | 11 | basis? |
| 12 | form. | 12 | BY MR. ZELLERS: |
| | | | |
| 13 | A. I'm familiar with some of their | 13 | Q. You have not done any testing |
| 13 14 | procedures, yes. | 14 | of talcum powder to determine whether it |
| 13 14 15 | procedures, yes. BY MR. ZELLERS: | 14 15 | of talcum powder to determine whether it contains asbestos or not; is that right? |
| 13 14 15 16 | procedures, yes. BY MR. ZELLERS: Q. Are you familiar with their | 14 15 16 | of talcum powder to determine whether it contains asbestos or not; is that right? A. No. All of my understanding is |
| 13 14 15 16 17 | procedures, yes. BY MR. ZELLERS: Q. Are you familiar with their testing of source mines? | 14 15 16 17 | of talcum powder to determine whether it contains asbestos or not; is that right? A. No. All of my understanding is based on other sources. |
| 13 14 15 16 17 | procedures, yes. BY MR. ZELLERS: Q. Are you familiar with their testing of source mines? A. To some extent. | 14 15 16 17 18 | of talcum powder to determine whether it contains asbestos or not; is that right? A. No. All of my understanding is based on other sources. Q. And those other sources would |
| 13 14 15 16 17 18 | procedures, yes. BY MR. ZELLERS: Q. Are you familiar with their testing of source mines? A. To some extent. MS. O'DELL: Object to the | 14 15 16 17 18 19 | of talcum powder to determine whether it contains asbestos or not; is that right? A. No. All of my understanding is based on other sources. Q. And those other sources would be, in part, the testing that was done by |
| 13 14 15 16 17 18 19 20 | procedures, yes. BY MR. ZELLERS: Q. Are you familiar with their testing of source mines? A. To some extent. MS. O'DELL: Object to the form. | 14 15 16 17 18 19 20 | of talcum powder to determine whether it contains asbestos or not; is that right? A. No. All of my understanding is based on other sources. Q. And those other sources would be, in part, the testing that was done by Longo; is that right? |
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| | Page 158 | | Page 160 |
|--|---|--|--|
| 1 | Q. You're looking now back at the | 1 | BY MR. ZELLERS: |
| 2 | Pier Exhibit Pier-47 and the Hopkins | 2 | Q. The Reid paper that I've handed |
| 3 | Exhibit Hopkins-28; is that right? | 3 | you, what we've marked as Exhibit 17, looks |
| 4 | A. I was actually referring to the | 4 | at the issue: Does exposure to asbestos |
| 5 | Imerys documents that are referenced toward | 5 | cause ovarian cancer. |
| 6 | the end of the literature exhibit to my | 6 | Is that right? |
| 7 | report, but certainly the Exhibit Pier-47 | 7 | A. Yes. |
| 8 | would be included there. | 8 | Q. They talk about in terms of |
| 9 | Q. You have no independent basis | 9 | limitations on the first page, right-hand |
| 10 | to say that cosmetic talcum powder contains | 10 | column, they say: Studies that have examined |
| 11 | fibrous tale, correct? | 11 | this issue have been limited for two major |
| 12 | MS. O'DELL: Object to the | 12 | reasons. |
| 13 | form. | 13 | Is that right? |
| 14 | A. I have no independent basis, | 14 | A. Yes. |
| 15 | no. | 15 | Q. Number one, small number of |
| 16 | BY MR. ZELLERS: | 16 | cases, much fewer women than men have been |
| 17 | Q. You're familiar with the | 17 | exposed to asbestos, particularly in more |
| 18 | limitations of the research on a potential | 18 | heavily exposed occupational settings where |
| 19 | link between asbestos and ovarian cancer; is | 19 | relative risks are higher; is that right? |
| 20 | that right? | 20 | A. Yes. |
| 21 | MS. O'DELL: Object to the | 21 | Q. How many of these studies |
| 22 | form. | 22 | well, strike that. |
| 23 | A. I'm familiar with some research | 23 | Would you agree that the |
| 24 | limitations in that question, yes. | 24 | studies in this area have been primarily |
| 24 | inintations in that question, yes. | 24 | studies in this area have been primarily |
| | | | |
| | Page 159 | | Page 161 |
| 1 | Page 159 BY MR. ZELLERS: | 1 | Page 161 related to occupational exposure? |
| 1 2 | | 1 2 | |
| | BY MR. ZELLERS: | | related to occupational exposure? |
| 2 | BY MR. ZELLERS: Q. You agree that research on the | 2 | related to occupational exposure? A. Primarily, yes. |
| 2 | BY MR. ZELLERS: Q. You agree that research on the potential relationship between asbestos and | 2 3 | related to occupational exposure? A. Primarily, yes. Q. How many total women have been |
| 2 3 4 | BY MR. ZELLERS: Q. You agree that research on the potential relationship between asbestos and ovarian cancer has only considered a small | 2 3 4 | related to occupational exposure? A. Primarily, yes. Q. How many total women have been studied? |
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| | | 1 | |
|----|--|----|---|
| | Page 162 | | Page 164 |
| 1 | similar under light microscopy, and they're | 1 | take a minute to refresh yourself on |
| 2 | often difficult to distinguish, even by a | 2 | the page |
| 3 | pathologist, unless special tests are used. | 3 | MR. ZELLERS: I'm looking under |
| 4 | Often these cases occur in | 4 | Discussion. |
| 5 | places where they don't have the access to | 5 | MS. O'DELL: please feel |
| 6 | special test equipment that can definitively | 6 | free to do that. |
| 7 | distinguish, and so they are classified and | 7 | Excuse me, sir, I was talking. |
| 8 | we move on. | 8 | If you need to review the paper, |
| 9 | Q. Another limitation of any | 9 | Dr. Carson, please feel free to do |
| 10 | studies in this area relate to the inability | 10 | that. |
| 11 | to account for nonoccupational risk factors | 11 | MR. ZELLERS: This doctor has |
| 12 | for ovarian cancer other than age; is that | 12 | given 35 depositions. He is perfectly |
| 13 | right? | 13 | capable of handling himself. He does |
| 14 | MS. O'DELL: Object to the | 14 | not need your advice as we go along. |
| 15 | form. | 15 | MS. O'DELL: Nor do I, Michael. |
| 16 | A. Are you reading also from this | 16 | So I'm going to deal with this witness |
| 17 | paper or | 17 | in the way I choose, which is |
| 18 | BY MR. ZELLERS: | 18 | perfectly appropriate. If Dr. Carson |
| 19 | Q. I was looking now at the | 19 | needs to review the paper, he's going |
| 20 | Camargo paper. Are you familiar with the | 20 | to review the paper. You may ask him |
| 21 | Camargo paper? | 21 | questions, he'll be happy to respond. |
| 22 | A. If you have a copy of that, I'd | 22 | MR. ZELLERS: Your job is not |
| 23 | like to look at it, if I'm going to answer | 23 | to coach the witness; your job is to |
| 24 | questions about it. | 24 | make objections as to form or |
| | 1 | | J |
| | Page 163 | | Page 165 |
| 1 | Q. All right. This is a paper in | 1 | foundation, not to make speaking |
| 2 | 2011. We'll mark it as Exhibit 18. | 2 | objections and coaching of the |
| 3 | (Carson Deposition Exhibit 18 | 3 | witness. |
| 4 | marked.) | 4 | MS. O'DELL: If you have a |
| 5 | BY MR. ZELLERS: | 5 | question, I'm sure Dr. Carson would be |
| 6 | Q. Here the authors also looked at | 6 | happy to address it. |
| 7 | the issue of occupational exposure to | 7 | MR. ZELLERS: I've asked him |
| 8 | asbestos and ovarian cancer; is that right? | 8 | the question. |
| 9 | A. Yes. | 9 | MS. O'DELL: Would you mind |
| 10 | Q. If you turn to page 216 I'm | 10 | repeating the question, please? |
| 11 | sorry, 1216, second-to-last paragraph before | 11 | MR. ZELLERS: Sure. |
| 12 | the conclusion: A further limitation of our | 12 | THE WITNESS: I don't remember |
| 13 | analysis was its inability to account for | 13 | the question. |
| 14 | nonoccupational risk factors for ovarian | 14 | MR. ZELLERS: Okay. I'll be |
| 15 | cancer other than age. | 15 | happy to repeat it. |
| 16 | Is that identified by the | 16 | BY MR. ZELLERS: |
| 17 | authors as a limitation? | 17 | Q. Dr. Carson, you've looked at |
| 18 | A. Yes, it is. | 18 | this Camargo paper; is that right? |
| 19 | Q. Under if you go a page back, | 19 | A. Yes. |
| 20 | 1215, under Discussion, in the second | 20 | Q. In their discussion, they talk |
| 21 | paragraph, the authors talk about other | 21 | about other research, including research done |
| 22 | studies that have been done in this area, | 22 | by Edelman; is that right? |
| 23 | including Edelman; is that right? | 23 | A. Are you at the top of the |
| 24 | MS. O'DELL: If you need to | 24 | middle column on |
| | | I | |

| 1 Q | | | |
|---|---|--|--|
| 2 A | Page 166 | | Page 168 |
| 2 A | I'm looking under Discussion. | 1 | BY MR. ZELLERS: |
| | _ | 2 | Q if your theory is correct? |
| 3 Q | The first well, the second | 3 | MS. O'DELL: Object to the |
| 4 parag | | 4 | form. |
| 5 A | _ | 5 | A. There may have been higher |
| 6 Q | | 6 | rates of ovarian cancers, but you have to |
| • | ate is similar to that reported by | 7 | also understand that the latency period for |
| | nan; is that right? | 8 | ovarian cancer is pretty long. It's greater |
| 9 A | | 9 | than 20 years, often as long as 40 years. |
| 10 O | | 10 | And so we're still dealing with cancers that |
| • | aded, however, that despite the positive | 11 | may have started back in the '70s. |
| | gnificant association, there was | 12 | BY MR. ZELLERS: |
| | icient information to infer that | 13 | Q. Would you agree that exposure |
| | in cancers were caused by occupational | 14 | to asbestos through a perineal cosmetic talc |
| | • • | 15 | |
| 1 | ure to asbestos because of concerns | 16 | use is different from the heavy occupational |
| | tumor misclassification, inappropriate | 17 | exposure that has primarily been researched? |
| 1 | arison populations and the failure to | l | MS. O'DELL: Objection to form. |
| | nto account for known risk factors. | 18 | A. Yes. I agree with that. |
| 19 | Did I read that | 19 | BY MR. ZELLERS: |
| | You read that correctly. | 20 | Q. Are you an expert and |
| ` | All right. Are women who use | 21 | knowledgeable about cleavage fragments? |
| | erineally at greater risk of | 22 | A. I'm not. |
| | helioma? | 23 | Q. If I went through a series of |
| 24 A | I can't say that they are, but | 24 | questions and asked you to differentiate |
| | Page 167 | | Page 169 |
| 1 they r | nay be. | 1 | between cleavage fragments and asbestos |
| • | Wouldn't you expect to find | 2 | fibers, you would defer that to other |
| | rates of other cancers in women using | 3 | experts? |
| | ke mesothelioma if they are being | 4 | A. I would. |
| | ed to substantial amounts of asbestos? | 5 | Q. You also claim that the |
| 6 A | | 6 | presence of carcinogenic metals, including |
| | some mesotheliomas that are | 7 | chromium, cobalt and nickel in talc, adds to |
| | assified as ovarian cancers, or we may | 8 | its carcinogenicity; is that right? |
| | ing mesotheliomas and not relating talc | 9 | A. That is right. |
| | ation as a pertinent contributor to | 10 | Q. Do you have an opinion or |
| 11 that c | * | 11 | knowledge as to the amounts of chromium, |
| tilut C | | 12 | cobalt and nickel, if any, in talc? |
| 12 | and that there may have been more | 13 | A. Those metal elements are |
| 12 Q | os in talcum powders in the 1970s; is | 14 | included as usually as impurities or in |
| 13 thoug | - | l | moradou as assumy as impurinos of ill |
| though 14 asbes | | 1 15 | very small quantities in some denosits and |
| though 13 though 14 asbes 15 that ri | _ | 15 16 | very small quantities in some deposits and |
| 13 thoug 14 asbes 15 that ri | MS. O'DELL: Objection to form. | 16 | are present in small amounts. |
| 13 thoug 14 asbes 15 that ri 16 17 A | MS. O'DELL: Objection to form. I think I said there have been | 16 17 | are present in small amounts. Q. Do you have any idea how much |
| 13 thoug 14 asbes 15 that ri 16 17 A 18 step-v | MS. O'DELL: Objection to form. I think I said there have been vise improvements, and I but I agree | 16 17 18 | are present in small amounts. Q. Do you have any idea how much of these metals, if any, reaches a woman's |
| 13 thoug 14 asbes 15 that ri 16 17 A 18 step-v 19 with t | MS. O'DELL: Objection to form. I think I said there have been vise improvements, and I but I agree that statement. | 16 17 18 19 | are present in small amounts. Q. Do you have any idea how much of these metals, if any, reaches a woman's ovaries each time they use talc? |
| 13 though 14 asbess 15 that ris 16 17 A 18 step-value with the 20 BY M | MS. O'DELL: Objection to form. I think I said there have been vise improvements, and I but I agree that statement. R. ZELLERS: | 16 17 18 19 20 | are present in small amounts. Q. Do you have any idea how much of these metals, if any, reaches a woman's ovaries each time they use talc? A. I can't tell you how much, but |
| 13 though 14 asbes 15 that ri 16 17 A 18 step-value 19 with 120 BY M 21 Q | MS. O'DELL: Objection to form. I think I said there have been vise improvements, and I but I agree that statement. R. ZELLERS: Shouldn't we have seen higher | 16 17 18 19 20 21 | are present in small amounts. Q. Do you have any idea how much of these metals, if any, reaches a woman's ovaries each time they use talc? A. I can't tell you how much, but I can tell you that some does, and it is |
| 13 though 14 asbes 15 that ri 16 17 A 18 step-vill 19 with to 20 BY M 21 Q 22 rates 6 | MS. O'DELL: Objection to form. I think I said there have been vise improvements, and I but I agree hat statement. R. ZELLERS: Shouldn't we have seen higher of ovarian cancer in the earlier | 16 17 18 19 20 21 22 | are present in small amounts. Q. Do you have any idea how much of these metals, if any, reaches a woman's ovaries each time they use talc? A. I can't tell you how much, but I can tell you that some does, and it is it remains in the talc until long after it |
| 13 though 14 asbes 15 that ri 16 17 A 18 step-with 120 BY M 21 Q | MS. O'DELL: Objection to form. I think I said there have been vise improvements, and I but I agree hat statement. R. ZELLERS: Shouldn't we have seen higher of ovarian cancer in the earlier | 16 17 18 19 20 21 | are present in small amounts. Q. Do you have any idea how much of these metals, if any, reaches a woman's ovaries each time they use talc? A. I can't tell you how much, but I can tell you that some does, and it is |

| | Page 170 | | Page 172 |
|--|---|---|---|
| 1 | natural elements; is that right? | 1 | to chromium, cobalt or nickel or any other |
| 2 | A. Yes. | 2 | heavy metal; is that right? |
| 3 | Q. They are naturally in our | 3 | A. That is correct. |
| 4 | bodies; is that right? | 4 | Q. That answer to that question |
| 5 | A. That's correct. | 5 | would be true if I asked you about the |
| 6 | Q. They are present in food, | 6 | different fragrance chemicals, correct? |
| 7 | drinking water, bottled water, vitamins; is | 7 | MS. O'DELL: Object to the |
| 8 | that right? | 8 | form. |
| 9 | A. To some extent. | 9 | A. Also true. |
| 10 | Q. Do you have any evidence that | 10 | BY MR. ZELLERS: |
| 11 | the blood or tissue levels of any trace heavy | 11 | Q. You did a risk assessment in |
| 12 | metals are higher in genital talc users | 12 | this matter; is that right? |
| 13 | compared to nonusers? | 13 | A. Yes. |
| 14 | MS. O'DELL: Object to the | 14 | Q. Do you agree that a complete |
| 15 | form. | 15 | and proper risk assessment involves four |
| 16 | A. I do not. | 16 | elements? |
| 17 | BY MR. ZELLERS: | 17 | MS. O'DELL: Object to the |
| 18 | Q. As we discussed when we talked | 18 | form. |
| 19 | about asbestos, you cannot evaluate the | 19 | A. Not necessarily. |
| 20 | potential effects of exposure to a substance | 20 | BY MR. ZELLERS: |
| 21 | • | 21 | |
| 22 | without factoring in the amount of exposure; | 22 | Q. Well, you have to identify a |
| | is that right? | | potential hazard; is that right? |
| 23 | MS. O'DELL: Object to the | 23 | A. Yes. |
| 24 | form. | 24 | Q. You've got to do some type of |
| | Page 171 | | Page 173 |
| 1 | A. It's useful to factor in the | 1 | dose-response assessment; is that right? |
| 2 | amount if the amount is known. If the amount | 2 | A. Not necessarily. |
| 3 | is not known, it's not necessarily required | 3 | Q. You |
| 4 | to draw conclusions. | 4 | MS. O'DELL: Excuse me. If you |
| 5 | BY MR. ZELLERS: | 5 | finished if you need to, |
| 6 | Q. In this case, you do not know | 6 | Dr. Carson, if you're not finished. |
| 7 | the amount, be it chromium, cobalt and/or | 7 | If you're finished, fine. Sorry. |
| 8 | nickel; is that right? | | |
| | mekel, is that right: | 8 | |
| 9 | | 8 9 | A. A qualitative risk assessment |
| 9 10 | MS. O'DELL: Objection to the form. | 1 | |
| 10 | MS. O'DELL: Objection to the form. | 9 | A. A qualitative risk assessment does not necessarily require a dose-response |
| 10 11 | MS. O'DELL: Objection to the form. Excuse me. Dr. Carson, as you | 9 10 | A. A qualitative risk assessment does not necessarily require a dose-response in order to reach valid conclusions. BY MR. ZELLERS: |
| 10 11 12 | MS. O'DELL: Objection to the form. Excuse me. Dr. Carson, as you know, is not being offered as a | 9 10 11 | A. A qualitative risk assessment does not necessarily require a dose-response in order to reach valid conclusions. BY MR. ZELLERS: Q. It is not necessary to do a |
| 10 11 12 13 | MS. O'DELL: Objection to the form. Excuse me. Dr. Carson, as you know, is not being offered as a case-specific expert, so that question | 9 10 11 12 | A. A qualitative risk assessment does not necessarily require a dose-response in order to reach valid conclusions. BY MR. ZELLERS: Q. It is not necessary to do a dose-response assessment as part of a risk |
| 10 11 12 13 14 | MS. O'DELL: Objection to the form. Excuse me. Dr. Carson, as you know, is not being offered as a case-specific expert, so that question sounds like a specific patient, and so | 9 10 11 12 13 14 | A. A qualitative risk assessment does not necessarily require a dose-response in order to reach valid conclusions. BY MR. ZELLERS: Q. It is not necessary to do a dose-response assessment as part of a risk assessment. Is that your testimony under |
| 10 11 12 13 14 15 | MS. O'DELL: Objection to the form. Excuse me. Dr. Carson, as you know, is not being offered as a case-specific expert, so that question sounds like a specific patient, and so I would that's my objection. | 9 10 11 12 13 14 15 | A. A qualitative risk assessment does not necessarily require a dose-response in order to reach valid conclusions. BY MR. ZELLERS: Q. It is not necessary to do a dose-response assessment as part of a risk assessment. Is that your testimony under oath? |
| 10 11 12 13 14 15 | MS. O'DELL: Objection to the form. Excuse me. Dr. Carson, as you know, is not being offered as a case-specific expert, so that question sounds like a specific patient, and so I would that's my objection. A. I do not know the amount, but | 9 10 11 12 13 14 15 16 | A. A qualitative risk assessment does not necessarily require a dose-response in order to reach valid conclusions. BY MR. ZELLERS: Q. It is not necessary to do a dose-response assessment as part of a risk assessment. Is that your testimony under oath? A. It's not always necessary. |
| 10 11 12 13 14 15 16 | MS. O'DELL: Objection to the form. Excuse me. Dr. Carson, as you know, is not being offered as a case-specific expert, so that question sounds like a specific patient, and so I would that's my objection. A. I do not know the amount, but my opinion is that any within the | 9 10 11 12 13 14 15 16 17 | A. A qualitative risk assessment does not necessarily require a dose-response in order to reach valid conclusions. BY MR. ZELLERS: Q. It is not necessary to do a dose-response assessment as part of a risk assessment. Is that your testimony under oath? A. It's not always necessary. Q. Was it necessary in this case? |
| 10 11 12 13 14 15 16 17 | MS. O'DELL: Objection to the form. Excuse me. Dr. Carson, as you know, is not being offered as a case-specific expert, so that question sounds like a specific patient, and so I would that's my objection. A. I do not know the amount, but my opinion is that any within the microenvironment of the inflammatory process | 9 10 11 12 13 14 15 16 17 | A. A qualitative risk assessment does not necessarily require a dose-response in order to reach valid conclusions. BY MR. ZELLERS: Q. It is not necessary to do a dose-response assessment as part of a risk assessment. Is that your testimony under oath? A. It's not always necessary. Q. Was it necessary in this case? A. Well, I think there is an |
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| | Page 174 | | Page 176 |
|---|---|--|---|
| 1 | available to do a dose-response estimate for | 1 | and the metals were there as the baseline |
| 2 | those metals. | 2 | component of the talc formation that they |
| 3 | Q. What information did you rely | 3 | came from. |
| 4 | or use, if any, to make a dose-response | 4 | BY MR. ZELLERS: |
| 5 | assessment with respect to any fragrance | 5 | Q. You do not know the amounts of |
| 6 | chemicals? | 6 | either the heavy metals or the fragrance |
| 7 | MS. O'DELL: Objection, form. | 7 | chemicals in the talcum powder at issue in |
| 8 | A. There is no information | 8 | this case, correct? |
| 9 | available to do a dose-response estimate for | 9 | A. That's that's correct, I |
| 10 | the fragrances. | 10 | don't. |
| 11 | BY MR. ZELLERS: | 11 | Q. You do not know well, strike |
| 12 | Q. Did you do any type of exposure | 12 | that. I'll withdraw that. |
| 13 | assessment in this case? | 13 | You brought with you an IARC |
| 14 | MS. O'DELL: Object to the | 14 | monograph; is that right? |
| 15 | form, vague. | 15 | A. I have a couple of them. |
| 16 | A. I'm not sure exactly what | 16 | Q. All right. |
| 17 | you're what you're asking by exposure | 17 | MS. O'DELL: Are we going to |
| 18 | assessment. | 18 | are you going to move to |
| 19 | BY MR. ZELLERS: | 19 | MR. ZELLERS: We can take a |
| 20 | Q. Well, an exposure assessment is | 20 | break if you'd like. |
| 21 | also part of a risk assessment; is that | 21 | MS. O'DELL: Yeah, it's been |
| 22 | right? | 22 | about an hour and a half. |
| 23 | A. In this risk assessment, I | 23 | MR. ZELLERS: Sure. |
| 24 | considered studies that are reported in the | 24 | THE VIDEOGRAPHER: We're off |
| 24 | considered studies that are reported in the | 24 | THE VIDEOGRAPHER: WETE OIL |
| | Page 175 | | Page 177 |
| 1 | scientific and medical literature which have | 1 | the record 12:32, end of Tape 2. |
| 2 | reported the assessment of exposure in these | 2 | (Recess taken, 12:32 p.m. to |
| 3 | cases in various forms, and I considered | 3 | 1:38 p.m.) |
| 4 | those exposure assessments as being valid as | 4 | THE VIDEOGRAPHER: We're on the |
| 5 | reported and considered them as a whole. | 5 | record, 1:38, beginning of Tape 3. |
| 6 | Q. Did you look at any exposure | 6 | BY MR. ZELLERS: |
| 7 | assessment specific to the alleged heavy | -, | |
| | | 7 | Q. Dr. Carson, when we left, we |
| 8 | | 8 | , , |
| 8 9 | metals contained in talcum powder? MS. O'DELL: Object to the | | Q. Dr. Carson, when we left, we were talking about the trace metals and fragrance chemicals in talcum powder, |
| _ | metals contained in talcum powder? | 8 | were talking about the trace metals and |
| 9 | metals contained in talcum powder? MS. O'DELL: Object to the form. | 8 9 | were talking about the trace metals and fragrance chemicals in talcum powder, |
| 9 | metals contained in talcum powder? MS. O'DELL: Object to the form. A. No, I did not. | 8 9 10 | were talking about the trace metals and fragrance chemicals in talcum powder, correct? A. Yes. |
| 9 10 11 | metals contained in talcum powder? MS. O'DELL: Object to the form. A. No, I did not. BY MR. ZELLERS: | 8 9 10 11 | were talking about the trace metals and fragrance chemicals in talcum powder, correct? A. Yes. Q. You do not know how much of |
| 9 10 11 12 | metals contained in talcum powder? MS. O'DELL: Object to the form. A. No, I did not. BY MR. ZELLERS: Q. Did you look at any exposure | 8 9 10 11 12 13 | were talking about the trace metals and fragrance chemicals in talcum powder, correct? A. Yes. Q. You do not know how much of these trace metals or fragrance chemicals |
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| 9 10 11 12 13 14 15 16 17 18 19 20 21 | metals contained in talcum powder? MS. O'DELL: Object to the form. A. No, I did not. BY MR. ZELLERS: Q. Did you look at any exposure assessment with respect to any fragrance chemicals contained within talcum powder? MS. O'DELL: Object to the form. A. With respect to the fragrance chemicals and the heavy metals, the only exposure assessment that I was able to do was verify that these things were present in | 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | were talking about the trace metals and fragrance chemicals in talcum powder, correct? A. Yes. Q. You do not know how much of these trace metals or fragrance chemicals reach the ovaries, correct? A. I don't know specifically how much reaches it, but if I know it's a component of the talc, and if I know the talc reaches it, then I know some of the metals and the fragrances reach it. Q. You don't know the component or the amount of either the trace metals or the |

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| | Page 178 | | Page 180 |
| 1 | Q. You do not know the exposure of | 1 | BY MR. ZELLERS: |
| 2 | any of the women who are plaintiffs in this | 2 | Q. What would you agree that, |
| 3 | litigation to the talcum powder, correct? | 3 | in general, metals can differ in their |
| 4 | MS. O'DELL: Individual women? | 4 | toxicity and potential carcinogenicity based |
| 5 | MR. ZELLERS: Yes, individual | 5 | on their form? |
| 6 | women. | 6 | A. Yes. |
| 7 | A. I don't, no. | 7 | Q. Do you know the forms of |
| 8 | BY MR. ZELLERS: | 8 | chromium, nickel and cobalt detected in |
| 9 | Q. You brought with you an IARC | 9 | cosmetic talc? |
| 10 | monograph, and I think you've got several | 10 | A. There's metal ions are |
| 11 | monographs that are on your literature list; | 11 | usually incorporated in the mineral lattice, |
| 12 | is that right? | 12 | and so they are part of the magnesium |
| 13 | A. That's correct. | 13 | silicate crystal. |
| 14 | | 14 | • |
| | The state of the s | 15 | Q. I'm not sure if that answers my |
| 15 16 | chemicals and agents from Group 1, | | question, and if it does, I don't understand, |
| | carcinogenic to humans, down to Group 4, | 16 | so let me ask again. |
| 17 | probably not carcinogenic to humans; is that | 17 | Do you know the forms, and by |
| 18 | right? | 18 | that I mean valence state, of chromium or |
| 19 | A. That's correct. | 19 | nickel or cobalt that have been detected in |
| 20 | Q. Does the classification of a | 20 | cosmetic talc? |
| 21 | substance as a known probable or possible | 21 | A. Oh, the valence state? |
| 22 | carcinogen by IARC, and IARC is International | 22 | Q. Yes, sir. |
| 23 | Agency for Research on Cancer, or by the | 23 | A. I don't know specifically, but |
| 24 | National Toxicology Program or the U.S. | 24 | that's dependent on the surrounding structure |
| | Page 179 | | Page 181 |
| 1 | Environmental Protection Agency, mean that | 1 | that the metals are contained in, and metals |
| 2 | the substance can cause all types of cancers | 2 | can assume a different valence state |
| 3 | in humans by any exposure route? | 3 | depending on the redox environment. |
| 4 | MS. O'DELL: Object to the | 4 | Q. You are not, at least in this |
| 5 | form. | 5 | litigation today, expressing any opinion as |
| 6 | A. No. | 6 | to the valence state of chromium that may be |
| 7 | BY MR. ZELLERS: | 7 | found in cosmetic talc, correct? |
| 8 | Q. There are different cancers | 8 | MS. O'DELL: Object to the |
| 9 | that may be associated with different | 9 | form. |
| 10 | chemicals or agents; is that right? | 10 | A. No, I'm not. |
| 11 | A. And different routes of | 11 | BY MR. ZELLERS: |
| 12 | exposure. | 12 | Q. Your second opinion is that the |
| 13 | Q. You can have an agent that is a | 13 | perineal use of talcum powder results in |
| 14 | carcinogen or a probable or possible | 14 | direct exposure to the ovaries either via |
| 15 | carcinogen for one type of cancer, but not | 15 | inhalation or migration through the female |
| 16 | for another type of cancer, correct? | 16 | reproductive tract; is that right? |
| 17 | A. That's correct. | 17 | A. Well, it's primarily through |
| 18 | Q. You can have an agent or a | 18 | the female reproductive tract. The |
| ± 0 | ` | 19 | |
| 10 | chemical that's a carcinogen for one route of | | inhalation exposure would be a secondary |
| 19 | arma arma fama ala amaia - 1 t lt i t | 20 | route. |
| 20 | exposure for a chemical or agent but is not | 21 | O I -4 1 |
| 20 21 | carcinogenic for a different route of | 21 | Q. Let me ask you a couple of |
| 20 21 22 | carcinogenic for a different route of exposure, correct? | 22 | questions about inhalation exposure. |
| 20 21 | carcinogenic for a different route of | | |

| | Page 182 | | Page 184 |
|--|---|---|---|
| 1 | talcum powder can reach the ovaries through | 1 | A. The I'm sorry. The Heller |
| 2 | inhalation, correct? | 2 | study was talc, which I didn't cite here. |
| 3 | MS. O'DELL: Object to the | 3 | Halme was a retrograde menstruation study via |
| 4 | form. | 4 | the fallopian tubes, and Sjösten was starch |
| 5 | A. That is correct, although | 5 | particles. |
| 6 | there yes, that's correct. | 6 | Q. The only study and this is |
| 7 | BY MR. ZELLERS: | 7 | not one that you cited, but you've now |
| 8 | Q. You have never performed any | 8 | referred to that involved talc, was Heller; |
| 9 | study yourself pertaining to whether inhaled | 9 | is that right? |
| 10 | talc can migrate to the ovaries; is that | 10 | A. Well, it looked at it didn't |
| 11 | right? | 11 | look at transport inasmuch as it looked at |
| 12 | A. I have not, although it has | 12 | the presence of talc particles in the ovaries |
| 13 | been used as an explanation of how talc | 13 | and found them with or without the history of |
| 14 | particles might have reached the ovaries in | 14 | talc powder use. |
| 15 | persons who did not have another form of | 15 | Q. Heller looked at 24 patients; |
| 16 | exposure. | 16 | is that right? |
| 17 | Q. If inhalation is the exposure | 17 | A. I don't know, but that sounds |
| 18 | path for talc, shouldn't the lungs bear more | 18 | about right. |
| 19 | of a burden? | 19 | Q. Half of them had a history of |
| 20 | A. Yes. | 20 | using talc products, half did not? |
| 21 | Q. Why, then, isn't there an | 21 | MS. O'DELL: Object to form. |
| 22 | epidemic of mesothelioma in women who use | 22 | A. That's correct. |
| 23 | talcum powder? | 23 | BY MR. ZELLERS: |
| 24 | A. Because the primary route is | 24 | Q. Heller found talc in the |
| | Page 183 | | Page 185 |
| 1 | perineal via the reproductive tract. | 1 | tissues of all 24 patients; is that right? |
| 2 | Q. You discuss that on page 7 of | 2 | A. That is correct. |
| 3 | your report; is that right? | 3 | Q. I believe we covered this |
| 4 | A. Yes. | 4 | before, but just to confirm: There are no |
| 5 | Q. You cite a number of studies | 5 | published articles that you're aware of that |
| 6 | for the proposition that talc can be | _ | • |
| _ | | 6 | show granulomas, fibrosis or adhesions |
| 7 | transported from the perineum to the upper | 7 | show granulomas, fibrosis or adhesions anywhere in the reproductive tract of a woman |
| 8 | transported from the perineum to the upper reproductive tract and body cavity; is that | 7 8 | show granulomas, fibrosis or adhesions anywhere in the reproductive tract of a woman as a result of external genital talc |
| 8 9 | transported from the perineum to the upper reproductive tract and body cavity; is that right? | 7 8 9 | show granulomas, fibrosis or adhesions anywhere in the reproductive tract of a woman as a result of external genital talc application, correct? |
| 8 9 10 | transported from the perineum to the upper reproductive tract and body cavity; is that right? A. That's correct. | 7 8 9 10 | show granulomas, fibrosis or adhesions anywhere in the reproductive tract of a woman as a result of external genital talc application, correct? MS. O'DELL: Object to the |
| 8 9 10 11 | transported from the perineum to the upper reproductive tract and body cavity; is that right? A. That's correct. Q. None of the articles that you | 7 8 9 10 11 | show granulomas, fibrosis or adhesions anywhere in the reproductive tract of a woman as a result of external genital talc application, correct? MS. O'DELL: Object to the form. |
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| | Page 186 | | Page 188 |
|----------------------------|---|----------------|--|
| 1 | A. That's correct. | 1 | of all these studies that they were using |
| 2 | Q. And that means that they had | 2 | various particles that could be detected at |
| 3 | their legs up in the air, correct? | 3 | the other end, and so this was an attempt to |
| 4 | A. Correct. | 4 | do an experimental study which would cause no |
| 5 | Q. Those conditions well, | 5 | harm that would give them an answer regarding |
| 6 | strike that. | 6 | transport through the reproductive tract. |
| 7 | They were injected with | 7 | Q. In this study, particles were |
| 8 | oxytocin; is that right? | 8 | introduced into the reproductive tract, not |
| 9 | A. It is. | 9 | externally; is that right? |
| 10 | Q. That was to aid in the | 10 | MS. O'DELL: Object to the |
| 11 | transport of the particles, correct? | 11 | form. |
| 12 | MS. O'DELL: Object to the | 12 | A. That is correct. |
| 13 | form. | 13 | BY MR. ZELLERS: |
| 14 | A. I believe that was the author's | 14 | Q. Women were given Pitocin to |
| 15 | theory. | 15 | stimulate uterine contractions; is that |
| 16 | BY MR. ZELLERS: | 16 | right? |
| 17 | O. Those are different | 17 | A. That's the same as oxytocin. |
| 18 | circumstances or conditions from a woman who | 18 | Q. And that's a yes, correct? |
| 19 | would apply a talc to her genital area | 19 | A. Yes. |
| 20 | standing up, correct? | 20 | Q. Again, as with the Egli study, |
| 21 | A. Well, they are, but I'm not | 21 | the women were inverted in the Trendelenburg |
| 22 | sure that that position is really pertinent | 22 | position with their head down, legs up when |
| 23 | to the migration of particles through the | 23 | the particles were administered; is that |
| 24 | reproductive tract. | 24 | right? |
| | | | |
| | Page 187 | | Page 189 |
| 1 | Q. Is it your pos is it your | 1 | A. I believe so. |
| 2 | testimony that if a woman is in a lithotomy | 2 | Q. Is it possible that the |
| 3 | position with their legs up into the air, | 3 | radionuclides can leach from the particles? |
| 4 | that that is comparable with respect to the | 4 | A. I don't know the answer to |
| 5 | migration of talc to a woman who's standing | 5 | that, but it was radioactive technetium that |
| 6 | up and using it in her perineal region? | 6 | was bound to albumin. |
| 7 | A. It may be. | 7 | Q. The Sjösten study that you |
| 8 | Q. Are you an expert on that? | 8 | cite, that did not use involve the |
| 9 | A. I'm not. | 9 | perineal use of talc, but an exam with a |
| 10 | Q. The authors in Egli, they | 10 | force to the cervix; is that right? |
| 11 | stated it was possible that the study | 11 | A. Excuse me. An exam with what? |
| 12 | observed false positives due to sample | 12 | Q. So it involved an exam with |
| 13 | contamination because they failed to use | 13 | force to the cervix? |
| 14 | liquid or filter blanks as negative controls, | 14 | MS. O'DELL: Object to the |
| 15 | correct? | 15 | form. |
| 16 | A. I don't recall that, but that | 16 | A. Well, this was this was done |
| | may be the case. | 17 | as an experimental study on women who were |
| 17 | | 18 | scheduled to get hysterectomies and they did |
| 18 | Q. You refer to a study by Venter. | 1 -0 | |
| 18 19 | That involved a radioactive particulate | 19 | it on some women one day prior to the |
| 18 19 20 | That involved a radioactive particulate matter, correct? | | it on some women one day prior to the hysterectomy and another group of women four |
| 18 19 20 21 | That involved a radioactive particulate | 19 | · |
| 18 19 20 21 22 | That involved a radioactive particulate matter, correct? A. Yes. Q. Did not involve talc particles, | 19 20 | hysterectomy and another group of women four days prior to the hysterectomy, and they used gloves that were powdered with starch and |
| 18 19 20 21 | That involved a radioactive particulate matter, correct? A. Yes. | 19 20 21 | hysterectomy and another group of women four days prior to the hysterectomy, and they used |

| | Page 190 | | Page 192 |
|--|--|--|--|
| 1 | Latin square design, and they were able at | 1 | Q. In fact, in Terry well, and |
| 2 | the point of the hysterectomy of taking | 2 | let me mark it for you so you've got it in |
| 3 | samples of the fallopian tubes and washing | 3 | front of you. |
| 4 | them to determine whether or not particles | 4 | THE WITNESS: Okay. I'm going |
| 5 | were found in the tubes. | 5 | to move this binder for the time |
| 6 | BY MR. ZELLERS: | 6 | being, if you don't mind. |
| 7 | Q. What they actually found was | 7 | MR. ZELLERS: Oh, yes, I'll |
| 8 | that, whether the women were examined with | 8 | hand you the articles that I refer to, |
| 9 | gloves with the starch particles or not, they | 9 | but if you need it, just pull it out. |
| 10 | found starch particles in both, both groups, | 10 | THE WITNESS: Thank you. |
| 11 | correct? | 11 | (Carson Deposition Exhibit 19 |
| 12 | A. It is true. | 12 | marked.) |
| 13 | Q. Tubal ligation, you refer to | 13 | BY MR. ZELLERS: |
| 14 | tubal ligation and use that or purport to say | 14 | Q. Deposition Exhibit 19 is the |
| 15 | that that supports your migration theory, | 15 | 2013 Terry meta-analysis that you referred to |
| 16 | correct? | 16 | in your report; is that right? |
| 17 | A. It does. | 17 | A. Yes. |
| 18 | Q. Your testimony is that for | 18 | Q. That's a pooled analysis of |
| 19 | patients who have had a tubal ligation, that | 19 | eight studies; is that right? |
| 20 | they are at a lesser risk of the talc let | 20 | A. Yes. |
| 21 | me withdraw that. | 21 | Q. Okay. This pooled analysis of |
| 22 | | 22 | eight studies relating to genital powder use |
| 23 | Explain to us very briefly why | 23 | and the risk of ovarian cancer shows no |
| 23 24 | you believe that tubal ligation supports your migration theory. | 24 | variation in the risk in talc users based on |
| 2 4 | inigration theory. | 24 | variation in the risk in taic users based on |
| | | | |
| | Page 191 | | Page 193 |
| 1 | | 1 | |
| | A. If the pathway of exposure of | | whether they had a tubal ligation or |
| 1 2 3 | A. If the pathway of exposure of the ovaries that results in ovarian cancer is | 2 | whether they had a tubal ligation or hysterectomy; is that right? |
| 2 | A. If the pathway of exposure of the ovaries that results in ovarian cancer is via the reproductive tract, then tubal | | whether they had a tubal ligation or hysterectomy; is that right? A. I think that's the conclusion |
| 2 | A. If the pathway of exposure of the ovaries that results in ovarian cancer is via the reproductive tract, then tubal ligation, which closes off the fallopian | 2 3 | whether they had a tubal ligation or hysterectomy; is that right? A. I think that's the conclusion of the authors here, but it's not the |
| 2 3 4 | A. If the pathway of exposure of the ovaries that results in ovarian cancer is via the reproductive tract, then tubal ligation, which closes off the fallopian tubes, would interrupt that pathway and | 2 3 4 | whether they had a tubal ligation or hysterectomy; is that right? A. I think that's the conclusion of the authors here, but it's not the conclusion of the individual authors of the |
| 2 3 4 5 | A. If the pathway of exposure of the ovaries that results in ovarian cancer is via the reproductive tract, then tubal ligation, which closes off the fallopian tubes, would interrupt that pathway and result in reduced exposure; therefore, you | 2 3 4 5 | whether they had a tubal ligation or hysterectomy; is that right? A. I think that's the conclusion of the authors here, but it's not the conclusion of the individual authors of the studies who did the original investigations. |
| 2 3 4 5 6 | A. If the pathway of exposure of the ovaries that results in ovarian cancer is via the reproductive tract, then tubal ligation, which closes off the fallopian tubes, would interrupt that pathway and | 2 3 4 5 6 | whether they had a tubal ligation or hysterectomy; is that right? A. I think that's the conclusion of the authors here, but it's not the conclusion of the individual authors of the studies who did the original investigations. Q. Well, it is the conclusion of |
| 2 3 4 5 6 7 | A. If the pathway of exposure of the ovaries that results in ovarian cancer is via the reproductive tract, then tubal ligation, which closes off the fallopian tubes, would interrupt that pathway and result in reduced exposure; therefore, you would expect a reduced incidence of cancer in those women. | 2 3 4 5 6 7 | whether they had a tubal ligation or hysterectomy; is that right? A. I think that's the conclusion of the authors here, but it's not the conclusion of the individual authors of the studies who did the original investigations. Q. Well, it is the conclusion of the authors based upon their meta-analysis of |
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| | Page 194 | | Page 196 |
|---|---|---|---|
| 1 | size. | 1 | THE WITNESS: Thank you. |
| 2 | Is that right? | 2 | MS. O'DELL: Thank you. |
| 3 | A. Yes. | 3 | BY MR. ZELLERS: |
| 4 | Q. Essentially, looking at these | 4 | Q. This is also a study, |
| 5 | eight studies in this meta-analysis, Terry | 5 | Exhibit 20, Cramer 2016, that you cite as |
| 6 | did not find that exposure to genital powder | 6 | supportive of your opinions in this case, |
| 7 | applications that occurred before tubal | 7 | correct? |
| 8 | ligation or hysterectomy made any substantive | 8 | A. Correct. |
| 9 | difference in the results; is that right? | 9 | Q. Cramer actually looked at |
| 10 | A. Yes, but the point is that the | 10 | whether or not there was any greater |
| 11 | authors didn't find that it did not make a | 11 | association of talc use and ovarian cancer |
| 12 | difference either. They they ended up | 12 | and whether or not women who had a tubal |
| 13 | with a study with reduced numbers that they | 13 | ligation or hysterectomy had a reduced |
| 14 | couldn't make determinations about. | 14 | incidence of the disease; is that correct? |
| 15 | | 15 | A. Yes. |
| 16 | Q. If, though, the migration | 16 | |
| | theory is correct, you would expect that | | Q. Turn to page 337, and then it |
| 17 | there would be a reduction in the incidence | 17 | carries over to 339. They're talking |
| 18 | of ovarian cancer for women who have had a | 18 | they, being the authors of their results, |
| 19 | tubal ligation or hysterectomy; is that | 19 | and I'm reading just at the very bottom of |
| 20 | right? | 20 | 337, carried over to 339: By test for |
| 21 | MS. O'DELL: Object to the | 21 | interaction, column 3, the association was |
| 22 | form. | 22 | significantly greater for women who were |
| 23 | A. Yes, that is correct. | 23 | African-American, had no personal history of |
| 24 | /// | 24 | breast cancer, had a tubal ligation or |
| | Page 195 | | Page 197 |
| 1 | BY MR. ZELLERS: | 1 | hysterectomy. |
| 2 | Q. And that was not found in the | 2 | Is that right? |
| 3 | Terry meta-analysis that you cite; is that | 3 | MS. O'DELL: Object to the |
| 4 | right? | 4 | form. |
| 5 | MS. O'DELL: Object to the | 5 | A. Beginning on page 337? |
| 6 | form. | 6 | BY MR. ZELLERS: |
| 7 | A. That is correct, but it was | 7 | Q. Yes. |
| | | | |
| 8 | found in the baseline studies that were, in | 8 | * |
| 8 9 | found in the baseline studies that were, in part, included in this meta-analysis. | 8 9 | A. I'm sorry, if you could |
| 9 | part, included in this meta-analysis. | | A. I'm sorry, if you couldQ. Sure. At the very end of 337. |
| 9 10 | part, included in this meta-analysis. BY MR. ZELLERS: | 9 | A. I'm sorry, if you couldQ. Sure. At the very end of 337.A. Okay. |
| 9 10 11 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the | 9 10 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at |
| 9 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? | 9 10 11 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. |
| 9 10 11 12 13 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. | 9 10 11 12 13 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. |
| 9 10 11 12 13 14 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. Q. I've got a few questions for | 9 10 11 12 13 14 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. A. Yeah. |
| 9 10 11 12 13 14 15 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. Q. I've got a few questions for you on the Cramer study, but let me just ask, | 9 10 11 12 13 14 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. A. Yeah. Q. So if your migration theory is |
| 9 10 11 12 13 14 15 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. Q. I've got a few questions for you on the Cramer study, but let me just ask, since we're at this part right now. | 9 10 11 12 13 14 15 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. A. Yeah. Q. So if your migration theory is correct, you would expect there to be a lower |
| 9 10 11 12 13 14 15 16 17 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. Q. I've got a few questions for you on the Cramer study, but let me just ask, since we're at this part right now. Do you have the Cramer study? | 9 10 11 12 13 14 15 16 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. A. Yeah. Q. So if your migration theory is correct, you would expect there to be a lower incidence of ovarian cancer in women who have |
| 9 10 11 12 13 14 15 16 17 18 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. Q. I've got a few questions for you on the Cramer study, but let me just ask, since we're at this part right now. Do you have the Cramer study? I'll hand it to you. | 9 10 11 12 13 14 15 16 17 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. A. Yeah. Q. So if your migration theory is correct, you would expect there to be a lower incidence of ovarian cancer in women who have had a tubal ligation or hysterectomy, |
| 9 10 11 12 13 14 15 16 17 18 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. Q. I've got a few questions for you on the Cramer study, but let me just ask, since we're at this part right now. Do you have the Cramer study? I'll hand it to you. A. If you have a copy, I'd | 9 10 11 12 13 14 15 16 17 18 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. A. Yeah. Q. So if your migration theory is correct, you would expect there to be a lower incidence of ovarian cancer in women who have had a tubal ligation or hysterectomy, correct? |
| 9 10 11 12 13 14 15 16 17 18 19 20 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. Q. I've got a few questions for you on the Cramer study, but let me just ask, since we're at this part right now. Do you have the Cramer study? I'll hand it to you. A. If you have a copy, I'd appreciate it. | 9 10 11 12 13 14 15 16 17 18 19 20 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. A. Yeah. Q. So if your migration theory is correct, you would expect there to be a lower incidence of ovarian cancer in women who have had a tubal ligation or hysterectomy, correct? MS. O'DELL: Object to the |
| 9 10 11 12 13 14 15 16 17 18 19 20 21 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. Q. I've got a few questions for you on the Cramer study, but let me just ask, since we're at this part right now. Do you have the Cramer study? I'll hand it to you. A. If you have a copy, I'd appreciate it. MR. ZELLERS: Sure. We'll mark | 9 10 11 12 13 14 15 16 17 18 19 20 21 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. A. Yeah. Q. So if your migration theory is correct, you would expect there to be a lower incidence of ovarian cancer in women who have had a tubal ligation or hysterectomy, correct? MS. O'DELL: Object to the form. |
| 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. Q. I've got a few questions for you on the Cramer study, but let me just ask, since we're at this part right now. Do you have the Cramer study? I'll hand it to you. A. If you have a copy, I'd appreciate it. MR. ZELLERS: Sure. We'll mark the Cramer study as Exhibit 20. | 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. A. Yeah. Q. So if your migration theory is correct, you would expect there to be a lower incidence of ovarian cancer in women who have had a tubal ligation or hysterectomy, correct? MS. O'DELL: Object to the form. A. That is correct. |
| 9 10 11 12 13 14 15 16 17 18 19 20 21 | part, included in this meta-analysis. BY MR. ZELLERS: Q. Are you you also cite the Cramer study, 2016; is that right? A. Yes. Q. I've got a few questions for you on the Cramer study, but let me just ask, since we're at this part right now. Do you have the Cramer study? I'll hand it to you. A. If you have a copy, I'd appreciate it. MR. ZELLERS: Sure. We'll mark | 9 10 11 12 13 14 15 16 17 18 19 20 21 | A. I'm sorry, if you could Q. Sure. At the very end of 337. A. Okay. Q. So they're looking at A. Oh, by tests for interaction. Q. Yes. A. Yeah. Q. So if your migration theory is correct, you would expect there to be a lower incidence of ovarian cancer in women who have had a tubal ligation or hysterectomy, correct? MS. O'DELL: Object to the form. |

| 1 | | | 1 |
|--|--|--|---|
| | Page 198 | | Page 200 |
| 1 | test for interaction the association was | 1 | to talcum powder? |
| 2 | significantly greater for women who and | 2 | MS. O'DELL: Object to the |
| 3 | then I'm skipping African-American, but I'm | 3 | form. |
| 4 | coming down to have a tubal ligation or | 4 | A. It doesn't it doesn't |
| 5 | hysterectomy. | 5 | eliminate exposure, but it does remove |
| 6 | Is that correct? | 6 | residual exposure, as does sweating, other |
| 7 | A. Yes. | 7 | body secretions and so forth. |
| | | 8 | BY MR. ZELLERS: |
| 8 | Q. All right. If talcum powder | | |
| 9 | migrates from the perineal region to the | 9 | Q. Are you aware of any studies that show inflammation or oxidative stress as |
| 10 | ovaries, shouldn't exposure to exposure to | 10 | |
| 11 | talc be far greater in concentration in the | 11 | a result of genital talc use in the rectal, |
| 12 | rectal, vulvar, vaginal, cervical and uterine | 12 | vulvar, vaginal, cervical and uterine |
| 13 | tissues which are closer to the area of | 13 | tissues? |
| 14 | initial exposure? | 14 | A. No, I'm not. |
| 15 | MS. O'DELL: Objection to form. | 15 | Q. Under your theory or belief |
| 16 | A. Well, the acute exposure would | 16 | that talcum powder travels from the perineal |
| 17 | be greater. | 17 | region to the ovaries through the woman's |
| 18 | BY MR. ZELLERS: | 18 | reproductive tract, talcum powder must travel |
| 19 | Q. You would expect because the | 19 | past the labia, through the vagina, through |
| 20 | acute exposure is greater, that there should | 20 | the cervix, and then to the uterus; is that |
| 21 | be inflammation caused in these organs and | 21 | right? |
| 22 | areas, correct? | 22 | A. That's correct. |
| 23 | A. No. The inflammation and | 23 | Q. And then the powder travels |
| 24 | oxidative stress is an ongoing process that | 24 | through the uterus and into the fallopian |
| | | | |
| | | | |
| | Page 199 | | Page 201 |
| 1 | | 1 | |
| 1 2 | has to develop over time, and it occurs on a | 1 2 | tubes to reach the ovaries; is that right? |
| 2 | has to develop over time, and it occurs on a chronic basis in areas where foreign bodies | 2 | tubes to reach the ovaries; is that right? A. Yes. |
| 2 3 | has to develop over time, and it occurs on a chronic basis in areas where foreign bodies locate and reside. And talc and talcum | 2 3 | tubes to reach the ovaries; is that right? A. Yes. Q. On what studies are you relying |
| 2 3 4 | has to develop over time, and it occurs on a chronic basis in areas where foreign bodies locate and reside. And talc and talcum powder are examples of foreign bodies that | 2 3 4 | tubes to reach the ovaries; is that right? A. Yes. Q. On what studies are you relying to say that talcum powder affects the body |
| 2 3 4 5 | has to develop over time, and it occurs on a chronic basis in areas where foreign bodies locate and reside. And talc and talcum powder are examples of foreign bodies that have the right characteristics to cause | 2 3 4 5 | tubes to reach the ovaries; is that right? A. Yes. Q. On what studies are you relying to say that talcum powder affects the body differently when it's applied to the perineal |
| 2 3 4 5 6 | has to develop over time, and it occurs on a chronic basis in areas where foreign bodies locate and reside. And talc and talcum powder are examples of foreign bodies that have the right characteristics to cause chemotaxis in reactive oxygen species and | 2 3 4 5 6 | tubes to reach the ovaries; is that right? A. Yes. Q. On what studies are you relying to say that talcum powder affects the body differently when it's applied to the perineal region and travels to the cervix compared to |
| 2 3 4 5 6 7 | has to develop over time, and it occurs on a chronic basis in areas where foreign bodies locate and reside. And talc and talcum powder are examples of foreign bodies that have the right characteristics to cause chemotaxis in reactive oxygen species and oxidative status. | 2 3 4 5 6 7 | tubes to reach the ovaries; is that right? A. Yes. Q. On what studies are you relying to say that talcum powder affects the body differently when it's applied to the perineal region and travels to the cervix compared to when it is applied directly to the cervix? |
| 2 3 4 5 6 7 8 | has to develop over time, and it occurs on a chronic basis in areas where foreign bodies locate and reside. And talc and talcum powder are examples of foreign bodies that have the right characteristics to cause chemotaxis in reactive oxygen species and oxidative status. Q. Well, in fact, there would be | 2 3 4 5 6 7 8 | tubes to reach the ovaries; is that right? A. Yes. Q. On what studies are you relying to say that talcum powder affects the body differently when it's applied to the perineal region and travels to the cervix compared to when it is applied directly to the cervix? A. I don't think |
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| 2 3 4 5 6 7 8 9 10 | has to develop over time, and it occurs on a chronic basis in areas where foreign bodies locate and reside. And talc and talcum powder are examples of foreign bodies that have the right characteristics to cause chemotaxis in reactive oxygen species and oxidative status. Q. Well, in fact, there would be chronic exposure, so if we're dealing with, as you described in the very beginning, which you were asked, to look at the habitual use | 2 3 4 5 6 7 8 9 10 | A. Yes. Q. On what studies are you relying to say that talcum powder affects the body differently when it's applied to the perineal region and travels to the cervix compared to when it is applied directly to the cervix? A. I don't think MS. O'DELL: Object to the form. A there is much of a |
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| | Dama 202 | | Daga 204 |
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| | Page 202 | | Page 204 |
| 1 | region, talcum powder would also be in close | 1 | about to reconsider that? |
| 2 | contact with a woman's urethra; is that | 2 | A. Because the chatter is that |
| 3 | right? | 3 | this is something that's on their radar |
| 4 | A. Yes. | 4 | screen currently. |
| 5 | Q. Substances, and in your view, | 5 | Q. What chatter are you aware of? |
| 6 | talcum powder, are capable of traveling up | 6 | And what is chatter? |
| 7 | the urethra; is that right? | 7 | A. It's discussion among within |
| 8 | MS. O'DELL: Object to the | 8 | the scientific and healthcare community of |
| 9 | form. | 9 | things that are on the drawing board for |
| 10 | A. The urethra has a sphincter | 10 | IARC. |
| 11 | which prevents transport beyond that point. | 11 | Q. Do you know whether or not |
| 12 | BY MR. ZELLERS: | 12 | IARC well, strike that. |
| 13 | Q. Women get urinary tract | 13 | IARC has not changed its |
| 14 | infections when bacteria travels up the | 14 | position that the migration theory and |
| 15 | urethra; is that right? | 15 | evidence for the migration theory is weak; is |
| 16 | A. That's correct. | 16 | that right? |
| 17 | Q. Studies, though, do not show an | 17 | MS. O'DELL: Object to the |
| 18 | increase in bladder cancer with talcum powder | 18 | form. |
| 19 | use; is that right? | 19 | A. They have not changed their |
| 20 | A. I don't believe that talcum | 20 | position that was published in the 2010 |
| 21 | powder transports in any appreciable amount | 21 | monograph. |
| 22 | up the urethra into the bladder. | 22 | BY MR. ZELLERS: |
| 23 | Q. Studies do not show an increase | 23 | |
| 24 | | 24 | Q. All right. You have heard |
| 24 | in rectal cancer with talcum powder use, do | 24 | chatter that they may look at it again; is |
| | Page 203 | | Page 205 |
| 1 | they? | 1 | that right? |
| 2 | A. No. | 2 | A. Yes. |
| 3 | Q. Are you aware that that IARC | l _ | |
| | Q. The you aware that that If the | 3 | Q. Other than this chatter, you're |
| 4 | and you're familiar with IARC, right? | 3 4 | Q. Other than this chatter, you're unaware of any other well, strike that. |
| 4 5 | | l | unaware of any other well, strike that. |
| | and you're familiar with IARC, right? A. Yes. | 4 | unaware of any other well, strike that. You're unaware of any change in |
| 5 | and you're familiar with IARC, right? A. Yes. Q. Are you aware that IARC rejects | 4 5 | unaware of any other well, strike that. |
| 5 6 | and you're familiar with IARC, right? A. Yes. | 4 5 6 | unaware of any other well, strike that. You're unaware of any change in IARC's position with respect to migration, correct? |
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| primary studies, the same ones that will be considered by JARC. Q. All right. As of today, JARC's published position is that evidence of a migration theory of talcum powder migrating to the evaries is weak, correct? A. Yes. Q. Have you conducted any tests or experiments with respect to your theory or position that talc migrates to the ovaries through the reproductive tract? A. No, I haven't. Q. How much talc actually reaches the ovaries in your opinion? A. No, I haven't. Q. Does it only reach the ovaries during certain times? A. I don't think so, It was just the evaries in your opinion? A. I can't namer that question because the dose has not been quantified. Q. Does it only reach the ovaries during certain times? A. I don't think so, It was just the term I used to describe the situation. Q. Is "intrinsic elimination system; is that right? A. I don't think so, It was just the term I used to describe the situation. Q. Is "intrinsic elimination. Q. Have you seen published stud | | Arch I. Chip Co | , | M.D., FII.D. |
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| considered by IARC. Q. All right. As of today, IARC's published position is that evidence of a migration theory of talcum powder migrating to the ovaries is weak, correct? A. Yes. Q. Have you conducted any tests or experiments with respect to your theory or position that tale migrates to the ovaries through the reproductive tract? A. No, I haven't. A. I don't think so, It was just the term I used to describe the situation. Q. Does it only reach the ovaries during certain times? A. I don't believe so. I think there are many circumstances whereby that migration pathway is functional, and in my belief, the pathway from the perineum to the cervix is pretty much an open channel, and then it continues to be open pretty much all the way into the pelvic cavity. Q. You are not a specialist in women's health issues, correct? MS. O'DELL: Object to the form. A. Well, I'm a doctor. I've examined a lot of women. BY MR. ZELLERS: Q. Are you an expert in the women's reproductive tract? MS. O'DELL: Excuse me. Are you finished, sir? THE WITNESS: Yes, I'm MS. O'DELL: Cokay. BY MR. ZELLERS: Q. Are you an expert in the women's reproductive tract? A. I think that the important point is the residence time in the women's reproductive tract? A. I think that the important point is the residence time that visit and point is the residence time that visit and point is the residence time into the oraries of the impact of foreign particles that use that term? A. I don't know. I suspect I could have. It's apparently a small number of ways to describe that in a few words. Q. You do not cite to any studies Page 207 The way into the pelvic cavity. Q. You are not a specialist in young care in the women's reproductive tract? A. That's correct. A. That's correct. A. I don't know. I suspect I could have. It's apparently a small number of ways to describe that in a few words. Q. You do not cite to any studies Page 209 The way into the pelvic cavity. Q. You are not a special | | Page 206 | | Page 208 |
| 2 considered by IARC. 3 Q. All right. As of today, IARC's 4 published position is that evidence of a 5 migration theory of talcum powder migrating 5 to the ovaries is weak, correct? 6 A. Yes. 7 A. Yes. 8 Q. Have you conducted any tests or 9 experiments with respect to your theory or 10 position that tale migrates to the ovaries 11 through the reproductive tract? 12 A. No, I haven't. 13 Q. How much tale actually reaches 14 the ovaries in your opinion? 15 A. I can't answer that question 16 because the dose has not been quantified. 17 Q. Does it only reach the ovaries 18 during certain times? 19 A. I don't think so. It was just 10 (b. Is "intrinsic elimination system; is system" a recognized term of art that's used 11 by genecologists? 12 A. I don't think so. It was just 13 the tere are many circumstances whereby that 14 migration pathway is functional, and in my 15 belief, the pathway from the perineum to the 16 cervix is pretty much an open channel, and 17 the way into the pelvic cavity. 19 Q. You are not a specialist in 19 Q. You are not a specialist in 20 women's health issues, correct? 21 MS. O'DELL: Object to the 23 form. 24 MS. O'DELL: Excuse me. Are 25 polymeration of those 27 physicians, correct? 26 A. I don't think be a supprison in sthat the 27 varies in your opinion? 28 A. I don't think so. It was just 29 the trait is correct. 30 A. I don't think so. It was just 31 the term I used to describe the situation. 31 System' a term of art used by oncologists? 32 A. That is correct. 33 Q. How are not a specialist in 34 A. I don't think so. It was just 35 the term I used to describe the situation. 36 Q. How you seen published studies 37 the term I used to describe the situation. 39 Q. How you seen published studies 30 the term of art the situation. 30 Q. How you seen published studies 31 the term I used to describe the situation. 31 the term I used to describe the situation. 31 the term I used to describe the situation. 32 Q. How you seen published studies 31 the term I used to describe the situation. 32 On Hav | 1 | primary studies, the same ones that will be | 1 | is that right? |
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| published position is that evidence of a migration theory of talcum powder migrating to the ovaries is weak, correct? A. Yes. Q. Have you conducted any tests or experiments with respect to your theory or position that tale migrates to the ovaries in your opinion? A. No, I havent. Q. How much tale actually reaches the ovaries in your opinion? A. I can't answer that question be because the does has not been quantified. Q. Does it only reach the ovaries during certain times? A. I don't claim to be a specialist in gynecology. Q. You third opinion is that the ovaries lack an intrinsic elimination system; is that right? A. I don't link so. It was just the term I used to describe the situation. Q. Does it only reach the ovaries during certain times? A. I don't claim to be a specialist in gynecology. Q. You are not as pecialist in gynecology. A. I don't claim to be a specialist in gynecology. Q. You do not cit to any studies there are many circumstances whereby that migration pathway is functional, and in my belief, the pathway from the perineum to the cervix is pretty much an open channel, and then it continues to be open pretty much all early and then it continues to be open pretty much all suses, correct? A. Well, I'm a doctor. I've form. A. Well, I'm a doctor. I've form. A. Well, I'm a doctor. I've form. BY MR. ZELLERS: Q. Are you an expert in the women's reproductive tract? A. I've taken it apart and put it back together again in medical school, and in other settings I've done OB/GYN rotations. Preparticipated in pelvic surgeries. I understand the anatomy. Q. There are physicians who are A. I don't claim to be a specialist in gynecology. A. I don't claim to be a specialist in gynecology. A. I don't claim to be a specialist in gynecology. A. I don't claim to be a specialist in gynecology. A. I don't claim to be a specialist in gynecology. A. I don't claim to be a specialist in gynecology. A. I don't claim to be a specialist in gynecology. A. I don't claim to be a varies laby is that ri | 3 | · · · · · · · · · · · · · · · · · · · | 3 | Q. You are not one of those |
| to the ovaries is weak, correct? A. Yes. Q. Have you conducted any tests or experiments with respect to your theory or position that tale migrates to the ovaries and the intrough the reproductive tract? A. No, I havent. Q. How much tale actually reaches the ovaries in your opinion? A. I can't answer that question because the dose has not been quantified. Q. Does it only reach the ovaries during certain times? A. I don't believe so. I think there are many circumstances whereby that migration pathway is functional, and then it continues to be open pretty much all open cervity is functional, and then it continues to be open pretty much all of them it continues to be open pretty much all of women. Page 207 the way into the pelvic cavity. Q. You are not a specialist in women's health issues, correct? A. Well, I'm a doctor. I've examined a lot of women. BY MR. ZELLERS: Q. Are you - MS. O'DELL: Object to the form. MS. O'DELL: Excuse me. Are you finished, sir? THE WITNESS: Yes, I'm finished. MS. O'DELL: Cokay. MS. O'DELL: Cokay. A. I way into the partic trace in part and put it back together again in medical school, and in othe settings I've done OBJG/NY rotations. Q. There are physicians who are A. I think that the migration pathway are in a extended time like the ovaries are in a cervity single form. Q. You are not a specialist in some conducted any such tests. | 4 | | 4 | physicians, correct? |
| 7 Q. Your third opinion is that the ovaries legislate through the reproductive tract? 10 experiments with respect to your theory or position that tale migrates to the ovaries through the reproductive tract? 11 through the reproductive tract? 12 A. No, I haven't. 13 Q. How much tale actually reaches the ovaries in your opinion? 14 A. I can't answer that question because the dose has not been quantified. 16 because the dose has not been quantified. 17 Q. Does it only reach the ovaries during certain times? 18 during certain times? 19 A. I don't believe so. I think the rem' I used to describe the situation. 10 Q. Is "intrinsic elimination system" a recognized term of art that's used by gynecologists? 11 A. I don't think so. It was just the term I used to describe the situation. 12 Q. Does it only reach the ovaries during certain times? 13 during certain times? 14 A. I don't believe so. I think migration pathway is functional, and in my belief, the pathway from the perineum to the cervix is pretty much an open channel, and then it continues to be open pretty much all 14 the way into the pelvic cavity. 15 Q. You are not a specialist in women's health issues, correct? 16 A. Well, I'm a doctor. I've examined a lot of women. 17 Page 207 18 MS. O'DELL: Object to the form. 18 BY MR. ZELLERS: 19 Q. Are you — 10 MS. O'DELL: Excuse me. Are you finished, in? 11 THE WITNESS: Yes, I'm finished. 12 THE WITNESS: Yes, I'm finished. 13 G. A. Well, I'm a doctor. I've examined a lot of women. 14 MS. O'DELL: Okay. 15 BY MR. ZELLERS: 16 Q. Are you an expert in the words reproductive tract? 17 A. I'don't know. I suspect I could have. It's apparently a small number of ways to describe that in a few words. 16 Q. You do not cite to any studies 17 Page 207 18 MS. O'DELL: Object to the form. 19 MS. O'DELL: Object to the form. 20 A. I have not conducted any such tests. 21 BY MR. ZELLERS: 22 Q. I here are playsicians who are 23 Q. There are playsicians who are 24 Herria of the service of the situation. 25 Q. I she cervix more or less sensiti | 5 | migration theory of talcum powder migrating | 5 | A. I don't claim to be a |
| 8 Q. Have you conducted any tests or 9 experiments with respect to your theory or 10 position that tale migrates to the ovaries through the reproductive tract? 11 A. No, I haven't. 12 A. No, I haven't. 12 A. No, I haven't. 12 A. No, I haven't. 13 Q. How much tale actually reaches 14 the ovaries in your opinion? 15 A. I can't answer that question 16 because the dose has not been quantified. 16 because the dose has not been quantified. 17 Q. Does it only reach the ovaries during certain times? 18 A. I don't believe so. I think there are many circumstances whereby that migration pathway is functional, and in my 22 belief, the pathway from the perineum to the cervix is pretty much an open channel, and then it continues to be open pretty much all 24 then it continues to be open pretty much all 24 women's health issues, correct? 2 M. S. O'DELL: Object to the 6 form. 2 A. Well, I'm a doctor. I've examined a lot of women. 2 A. Well, I'm a doctor. I've examined a lot of women. 2 A. Well, I'm a doctor. I've examined a lot of women. 2 A. Well, I'm a doctor. I've examined a lot of women. 3 BY MR. ZELLERS: 9 Q. Are you 9 MS. O'DELL: Chay. 14 MS. O'DELL: Excuse me. Are 10 you finished. 15 MS. O'DELL: Chay. 15 MS. O'DELL: Okay. 16 MS. O'DELL: Okay. 17 MS. O'DELL: Object to the 17 women's reproductive tract? 18 MS. O'DELL: Okay. 17 MS. O'DELL: Object to the 18 MS. O'DELL: Chay. 18 MS. O'DELL: Object to the 19 mack together again in medical school, and in other settings I've done O'BiO'YN rotations. 17 I winderstand the anatomy. 18 mack there are in the 22 movers are in the 22 moven's and in medical school, and in other settings I've done O'BiO'YN rotations. 19 I winderstand the anatomy. 20 There are physicians who are 20 max expert in the 20 words: 2 | 6 | | 6 | specialist in gynecology. |
| 8 Q. Have you conducted any tests or 9 experiments with respect to your theory or 10 position that tale migrates to the ovaries through the reproductive tract? 11 A. No, I haven't. 12 A. No, I haven't. 12 A. No, I haven't. 12 A. No, I haven't. 13 Q. How much tale actually reaches 14 the ovaries in your opinion? 15 A. I can't answer that question 16 because the dose has not been quantified. 16 because the dose has not been quantified. 17 Q. Does it only reach the ovaries during certain times? 18 A. I don't believe so. I think there are many circumstances whereby that migration pathway is functional, and in my 22 belief, the pathway from the perineum to the cervix is pretty much an open channel, and then it continues to be open pretty much all 24 then it continues to be open pretty much all 24 women's health issues, correct? 2 M. S. O'DELL: Object to the 6 form. 2 A. Well, I'm a doctor. I've examined a lot of women. 2 A. Well, I'm a doctor. I've examined a lot of women. 2 A. Well, I'm a doctor. I've examined a lot of women. 2 A. Well, I'm a doctor. I've examined a lot of women. 3 BY MR. ZELLERS: 9 Q. Are you 9 MS. O'DELL: Chay. 14 MS. O'DELL: Excuse me. Are 10 you finished. 15 MS. O'DELL: Chay. 15 MS. O'DELL: Okay. 16 MS. O'DELL: Okay. 17 MS. O'DELL: Object to the 17 women's reproductive tract? 18 MS. O'DELL: Okay. 17 MS. O'DELL: Object to the 18 MS. O'DELL: Chay. 18 MS. O'DELL: Object to the 19 mack together again in medical school, and in other settings I've done O'BiO'YN rotations. 17 I winderstand the anatomy. 18 mack there are in the 22 movers are in the 22 moven's and in medical school, and in other settings I've done O'BiO'YN rotations. 19 I winderstand the anatomy. 20 There are physicians who are 20 max expert in the 20 words: 2 | 7 | A. Yes. | 7 | Q. Your third opinion is that the |
| 9 experiments with respect to your theory or position that tale migrates to the ovaries in through the reproductive tract? 11 through the reproductive tract? 12 A. No, I haven't. 13 Q. How much tale actually reaches 13 by gynecologists? 14 the ovaries in your opinion? 15 A. I can't answer that question 15 because the dose has not been quantified. 16 because the dose has not been quantified. 17 Q. Does it only reach the ovaries 17 during certain times? 18 during certain times? 19 A. I don't believe so. I think 19 there are many circumstances whereby that migration pathway is functional, and in my 20 belief, the pathway from the perineum to the 22 belief, the pathway from the perineum to the 23 cervix is pretty much an open channel, and then it continues to be open pretty much all 24 the way into the pelvic cavity. 2 Q. You are not a specialist in 2 women's health issues, correct? 4 MS. O'DELL: Object to the 6 form. 5 A. That's correct. 4 MS. O'DELL: Object to the 6 form. 5 Q. You do not cite to any studies Page 207 1 the way into the pelvic cavity. 2 Q. You are not a specialist in 2 women's health issues, correct? 4 MS. O'DELL: Object to the 6 form. 5 Q. Are you 6 A. Well, I'm a doctor. I've examined a lot of women. 8 BY MR. ZELLERS: 9 Q. Are you 10 MS. O'DELL: Excuse me. Are you finished. 11 you finished. 12 THE WITNESS: Yes, I'm 12 finished. 13 MS. O'DELL: Okay. 14 MS. O'DELL: Okay. 15 BY MR. ZELLERS: 16 Q. Are you an expert in the 6 morm. 17 Women's reproductive tract? 18 A. I three trains, is longer than exposure to other parts of the female anatomy; is that right? 18 MS. O'DELL: Object to the form. 19 MS. O'DELL: Object to the form. 20 Is the cervix more or less sensitive to the impact of foreign particles that the intrinsic climination system a term of art used by ogencologists? 20 A. There are playsicians who are 21 the term I used to describe the situation. 22 the refunction of the female and the anatomy. 23 (Pre are playsicians who are) 24 the ovaries in finished. 25 (Pre are playsicians who are | 8 | Q. Have you conducted any tests or | 8 | |
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| through the reproductive tract? A. No, I haven't. Q. How much talc actually reaches the ovaries in your opinion? A. I can't answer that question because the dose has not been quantified. C. Q. Is "intrinsic elimination system" a recognized term of art that's used by gynecologists? A. I can't answer that question C. Q. Is "intrinsic elimination system" a recognized term of art that's used by gynecologists? A. I don't think so. It was just the term I used to describe the situation. Q. Is "intrinsic elimination of system" a recognized term of art that's used by gynecologists? A. I don't think so. It was just the term I used to describe the situation. Q. Is "intrinsic elimination of system" a recognized term of art that's used by gynecologists? A. I don't think so. It was just the term I used to describe the situation. Q. Is "intrinsic elimination of system" a recognized term of art that's used by gynecologists? A. I don't think so. It was just the term I used to describe the situation. Q. Is "intrinsic elimination of system" a recognized term of art that's used by gynecologists? A. I don't think so. It was just the term I used to describe the situation. Q. Is "intrinsic elimination of system" a recognized term of art that's used by gynecologists? A. I don't think so. It was just the term I used to describe that in a few words on that use that term? A. I don't know. I suspect I could have. It's apparently a small number of ways to describe that in a few words. Q. You do not cite to any studies Page 207 Page 207 Page 209 the way into the pelvic cavity. Q. You are not a specialist in the way into the pelvic cavity. Q. You have not conducted any tests to show that exposure to the ovaries to particulate matter, if any, is longer than exposure to other parts of the female anatomy; is that right? MS. O'DELL: Object to the form. A. I think that the important point is the residence time that exists, and the cervix is not presented with things for an extended time like the ovaries are in | 10 | | 10 | |
| 12 A. No, Î haven't. 13 Q. How much talc actually reaches 14 the ovaries in your opinion? 15 A. I can't answer that question 16 because the dose has not been quantified. 17 Q. Does it only reach the ovaries 18 during certain times? 18 A. I don't believe so. I think 19 A. I don't believe so. I think 20 there are many circumstances whereby that 21 migration pathway is functional, and in my 22 belief, the pathway from the perineum to the 23 cervix is pretty much an open channel, and 24 then it continues to be open pretty much all 25 Q. You are not a specialist in 26 WS. O'DELL: Object to the 27 form. 28 BY MR. ZELLERS: 29 Q. Are you 40 MS. O'DELL: Cokay. 41 MS. O'DELL: Cokay. 42 MS. O'DELL: Cokay. 43 MS. O'DELL: Cokay. 44 MS. O'DELL: Cokay. 45 MS. O'DELL: Cokay. 46 MS. O'DELL: Cokay. 47 MS. O'DELL: Cokay. 48 MS. O'DELL: Cokay. 49 MS. O'DELL: Object to the 10 ms. O'DELL: Cokay. 11 MS. O'DELL: Okay. 12 MS. O'DELL: Object to the 13 pack together again in medical school, and in 14 other settings I've done OB/G'YN rotations. 15 I've participated in pelvic surgeries. I 16 understand the anatomy. 17 Q. There are physicians who are 18 D. Have you separablished studies that use that used to describe that is used by gynecologists? 18 A. I don't kink so. It was just the term I used to describe that is steas to describe that used by oneologists? 19 A. I don't know. I suspect I could have. It's apparently a small number of ways to describe that in a few words. 20 You do not cite to any studies 21 in the body of your report to support your theory that the ovaries do not have an intrinsic elimination system. 21 in the body of your report to support your theory that the ovaries do not have an intrinsic elimination system. 21 in the body of your report to support your theory that the ovaries do not have an intrinsic elimination system. 22 belief, the pathway from the perineum to the could have. It's apparently a small number of ways to describe that in a few words. 24 | 11 | | 11 | O. Is "intrinsic elimination |
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| during certain times? A. I don't believe so. I think there are many circumstances whereby that migration pathway is functional, and in my belief, the pathway from the perineum to the cervix is pretty much an open channel, and then it continues to be open pretty much all Page 207 the way into the pelvic cavity. Q. You are not a specialist in women's health issues, correct? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. Are you - MS. O'DELL: Excuse me. Are you finished, sir? THE WITNESS: Yes, I'm finished. MS. O'DELL: Okay. BY MR. ZELLERS: Q. Are you an expert in the women's reproductive tract? A. I don't know. I suspect I could have. It's apparently a small number of ways to describe that in a few words. Q. You do not cite to any studies Page 209 Page 209 Page 209 Page 209 Page 209 A. The's apparently a small number of ways to describe that in a few words. Q. You do not cite to any studies Page 209 A. The's correct to support your theory that the ovaries do not have an intrinsic elimination system, correct? A. That's correct. Q. You have not conducted any tests to show that exposure to the ovaries to particulate matter, if any, is longer than exposure to other parts of the female anatomy; is that right? MS. O'DELL: Object to the form. A. I have not conducted any such tests. Page 209 A. The's correct. A. That's correct. A. That's correct. Q. You have not conducted any tests to show that exposure to the ovaries to particulate matter, if any, is longer than exposure to other parts of the female anatomy; is that right? MS. O'DELL: Object to the form. A. I have not conducted any such tests. A. I have not conducted an | | | 1 | |
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| there are many circumstances whereby that migration pathway is functional, and in my 2 belief, the pathway from the perineum to the 23 cervix is pretty much an open channel, and 24 then it continues to be open pretty much all 24 then it continues to be open pretty much all 25 page 207 Page 207 Page 209 1 the way into the pelvic cavity. 2 Q. You are not a specialist in 3 women's health issues, correct? 3 women's health issues, correct? 4 MS. O'DELL: Object to the 4 A. That's correct. 5 form. 5 Q. You have not conducted any 26 tests to show that exposure to the ovaries to particulate matter, if any, is longer than exposure to other parts of the female anatomy; is that right? 4 MS. O'DELL: Excuse me. Are 3 you finished, 3 ir? 3 ms. O'DELL: Okay. 4 MS. O'DELL: Okay. 5 MS. O'DELL: Okay. 5 MS. O'DELL: Okay. 5 MS. O'DELL: Okay. 6 MS. O'DELL: Okay. 14 MS. O'DELL: Okay. 15 MS. O'DELL: Okay. 16 MS. O'DELL: Okay. 16 MS. O'DELL: Okay. 17 MS. O'DELL: Okay. 17 MS. O'DELL: Okay. 18 MS. O'DELL: Okay. 19 MS. O'DELL: Okay. 19 MS. O'DELL: Okay. 19 MS. O'DELL: Okay. 10 MS. O'DELL: Okay. 11 MS. O'DELL: Okay. 12 MS. O'DELL: Okay. 14 MS. O'DELL: Okay. 15 MS. O'DELL: Okay. 16 MS. O'DELL: Okay. 17 MS. O'DELL: Okay. 17 MS. O'DELL: Okay. 18 MS. O'DELL: Object to the form. 18 MS. O'DELL: Object to the form. 19 MS. O'DELL: Object | | e e e e e e e e e e e e e e e e e e e | 1 | |
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| 23 cervix is pretty much an open channel, and then it continues to be open pretty much all 24 page 207 Page 207 Page 209 1 the way into the pelvic cavity. Q. You are not a specialist in 2 momen's health issues, correct? MS. O'DELL: Object to the 3 momen's health issues, correct? MS. O'DELL: Object to the 4 anatomy. BY MR. ZELLERS: Q. Are you MS. O'DELL: Excuse me. Are you finished, sir? THE WITNESS: Yes, I'm 12 momen's reproductive tract? MS. O'DELL: Okay. MS. O'DELL: Object to the impact of foreign particles than the ovaries? MS. O'DELL: Object to the form. MS. O'DELL: Object to the form. MS. O'DELL: Object to the form. A. I think that the important point is the residence time that exists, and the cervix is not presented with things for an extended time like the ovaries are in | | | l . | |
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| 9 | 8 | BY MR. ZELLERS: | 8 | exposure to other parts of the female |
| MS. O'DELL: Excuse me. Are you finished, sir? THE WITNESS: Yes, I'm if tests. MS. O'DELL: Object to the form. A. I have not conducted any such tests. MS. O'DELL: Okay. MS. O'DELL: Object to the MS. O'DELL: Object to t | 9 | | 9 | • |
| 11 you finished, sir? 12 THE WITNESS: Yes, I'm 13 finished. 14 MS. O'DELL: Okay. 15 BY MR. ZELLERS: 16 Q. Are you an expert in the 17 women's reproductive tract? 18 A. I've taken it apart and put it 19 back together again in medical school, and in 20 other settings I've done OB/GYN rotations. 21 I've participated in pelvic surgeries. I 22 understand the anatomy. 23 Q. There are physicians who are 21 I form. 22 A. I have not conducted any such tests. 24 I have not conducted any such tests. 25 A. I have not conducted any such tests. 26 A. I have not conducted any such tests. 27 A. I than the ovaries of foreign particles than the ovaries? 28 A. I've taken it apart and put it than the ovaries? 29 A. I think that the important point is the residence time that exists, and the cervix is not presented with things for an extended time like the ovaries are in | 10 | | 10 | |
| THE WITNESS: Yes, I'm finished. MS. O'DELL: Okay. BY MR. ZELLERS: Q. Are you an expert in the women's reproductive tract? A. I have not conducted any such tests. Q. Is the cervix more or less sensitive to the impact of foreign particles than the ovaries? A. I've taken it apart and put it back together again in medical school, and in other settings I've done OB/GYN rotations. I've participated in pelvic surgeries. I understand the anatomy. Q. There are physicians who are 12 A. I have not conducted any such tests. | | | 11 | • |
| finished. 13 tests. 14 MS. O'DELL: Okay. 15 BY MR. ZELLERS: 16 Q. Are you an expert in the 16 vomen's reproductive tract? 17 than the ovaries? 18 A. I've taken it apart and put it 19 back together again in medical school, and in 20 other settings I've done OB/GYN rotations. 21 I've participated in pelvic surgeries. I 22 understand the anatomy. 23 Q. There are physicians who are 13 tests. 14 BY MR. ZELLERS: Q. Is the cervix more or less sensitive to the impact of foreign particles than the ovaries? 17 than the ovaries? 18 MS. O'DELL: Object to the form. 20 A. I think that the important point is the residence time that exists, and the cervix is not presented with things for an extended time like the ovaries are in | | • | l . | |
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| women's reproductive tract? 18 A. I've taken it apart and put it 18 Back together again in medical school, and in 20 other settings I've done OB/GYN rotations. 21 I've participated in pelvic surgeries. I 22 understand the anatomy. 23 Q. There are physicians who are 21 than the ovaries? MS. O'DELL: Object to the form. 20 A. I think that the important point is the residence time that exists, and the cervix is not presented with things for an extended time like the ovaries are in | | | 1 | • |
| A. I've taken it apart and put it back together again in medical school, and in other settings I've done OB/GYN rotations. I've participated in pelvic surgeries. I understand the anatomy. Q. There are physicians who are 18 MS. O'DELL: Object to the form. A. I think that the important point is the residence time that exists, and the cervix is not presented with things for an extended time like the ovaries are in | | | l . | |
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| I've participated in pelvic surgeries. I understand the anatomy. Q. There are physicians who are 21 point is the residence time that exists, and 22 the cervix is not presented with things for 23 an extended time like the ovaries are in | | | l . | |
| understand the anatomy. 22 the cervix is not presented with things for an extended time like the ovaries are in | | | l . | |
| Q. There are physicians who are 23 an extended time like the ovaries are in | | | 1 | |
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| Totalion in the female reproductive tract, | | | 1 | |
| | | specialists in the foliule reproductive tract, | | The same of the sa |

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| | Page 210 | | Page 212 |
| 1 | sensitive. | 1 | A. Yes. |
| 2 | BY MR. ZELLERS: | 2 | MS. O'DELL: Object to the |
| 3 | Q. All right. Your fourth | 3 | form. |
| 4 | theory or strike that. | 4 | BY MR. ZELLERS: |
| 5 | Your fourth opinion is that the | 5 | Q. Are you familiar with the term |
| 6 | epidemiological studies show a positive | 6 | "person-years" as it relates to |
| 7 | relationship between regular perineal | 7 | epidemiological study? |
| 8 | application of talcum powder and ovarian | 8 | A. Yes, I am. |
| 9 | cancer; is that right? | 9 | Q. What is strike that. |
| 10 | A. That's correct. | 10 | How are person-years |
| 11 | Q. The studies that you reference | 11 | calculated? |
| 12 | in this opinion are referred to on pages 6 | 12 | A. They are calculated by in |
| 13 | and 7 of your report; is that right? | 13 | relation to an exposure or to an existing |
| 14 | MS. O'DELL: Object to the | 14 | treatment, they're calculated by multiplying |
| 15 | form. | 15 | the duration of the treatment or exposure in |
| 16 | A. Most of them, yes. | 16 | years by the number of people being studied. |
| 17 | BY MR. ZELLERS: | 17 | And that the result is person-years. |
| 18 | Q. You conclude that when | 18 | Q. Can you explain the difference |
| 19 | confounding and bias are exhaustively | 19 | between high-grade serous and low-grade |
| 20 | considered and do you believe you've done | 20 | serous cancer? |
| 21 | that here? | 21 | A. High-grade serous cancer has |
| 22 | A. I am restating what authors of | 22 | a is less differentiated and has a greater |
| 23 | the primary studies have done. I'm | 23 | propensity for metastasis and invasion. |
| 24 | evaluating the consistency of the evidence, | 24 | Q. Are you aware that the |
| | evaluating the consistency of the evaluation, | | Q. The you arraic that the |
| | Page 211 | | Page 213 |
| 1 | not the basic evidence itself. | 1 | epidemiological literature shows that these |
| 2 | Q. The apparent cause and effect | 2 | are very different cancers? |
| 3 | relationship between perineal talcum powder | 3 | A. They behave quite differently, |
| 4 | use and ovarian cancer amounts to about a 30% | 4 | yes. |
| 5 | increased risk of ovarian cancer in talcum | 5 | Q. Do you know what publication |
| 6 | powder users. | 6 | bias is? |
| 7 | Is that your opinion in this | 7 | A. Yes. |
| 8 | case? | 8 | Q. What is publication bias? |
| 9 | A. It is. | 9 | A. Publication bias is the |
| 10 | Q. And that is your opinion from | 10 | tendency to to spin a certain argument |
| 11 | reviewing the epidemiologic studies that you | 11 | in in order to influence acceptance of |
| 12 | cite in your report? | 12 | publications. |
| 13 | A. Yes. | 13 | Q. Is that a recognized issue in |
| 14 | Q. When epidemiologists refer to | 14 | the field of epidemiology, at least as you've |
| 15 | the statistical power of a study, what are | 15 | observed? |
| 16 | they referring to? | 16 | A. It's a it's not necessarily |
| 17 | A. Statistical power refers to the | 17 | recognized in the field of epidemiology. It |
| 18 | ability of a study design, if carried out, to | 18 | exists in all scientific endeavors. |
| 19 | detect a signal in the data of a particular | 19 | Q. Is it something that you and |
| 20 | magnitude. | 20 | other physicians and experts and scientists |
| 21 | Q. In plain English, statistical | 21 | need to be aware of? |
| 22 | power is the likelihood that a study will | 22 | A. Yes. I think we're all exposed |
| 23 | detect an effect when there is an effect to | 23 | to the effects of that and warned about it as |
| 24 | be detected; is that fair? | 24 | we go through our careers. |
| | | | |

Page 214 Page 216 1 Q. When I asked you early on what 1 been published as well. And I felt that was 2 your methodology was, you looked at the 2 sufficient to be able to produce this report 3 published literature, you looked at some 3 that addressed the question I was asked. 4 websites I think that you told us about 4 O. As you told us earlier, you 5 earlier, and then you performed a risk 5 have never published a meta-analysis on any assessment and considered whether perineal 6 topic; is that right? 6 7 use of talc products poses a safety risk to 7 A. That's correct. 8 8 consumers; is that right? You cite to some of the 9 MS. O'DELL: Object to the 9 available studies on talcum powder use in 10 form. 10 ovarian cancer, but not to all of the 11 11 A. Well, that's a gross studies, correct? oversimplification of the risk assessment 12 12 MS. O'DELL: Object to the 13 process that I performed. 13 form. 14 The review of the literature, 14 A. That's true. 15 which was based on the question that I was 15 BY MR. ZELLERS: 16 asked to address, was a fairly exhaustive one 16 Q. What was your reasoning for 17 which incorporated a search for every 17 focusing on certain studies and excluding 18 pertinent publication that was available and 18 other studies? 19 included multiple languages. 19 The studies that I referenced A. 20 It then was -- proceeded into a 20 were those that had specific aspects that 21 distillation of the facts that were -- that 21 directly influenced my report or my 22 were claimed based on those individual 22 conclusions or that I felt were illustrative 23 23 studies and investigations, and a comparison of comments I was making in the report, and 24 of those, one with another, eventually 24 that's why they were referenced. Page 215 Page 217 1 considering them all as a whole to arrive at 1 All of the studies may not have 2 conclusions that addressed the question. 2 risen to that -- the level of requiring being 3 referenced, but pretty much all the studies 3 BY MR. ZELLERS: Q. That was your methodology; is 4 are included in the literature that I 4 5 5 that right? reviewed. 6 A. That is the methodology, yes. 6 You cite in the report the 7 Did you consider the Bradford 7 studies that were favorable or supportive of 8 Hill criteria or factors in reaching your 8 your opinions, correct? 9 9 conclusions and opinions in this matter? A. Well, I cited a number of 10 That's part of the methodology 10 studies, not all of which were favorable to 11 which is outlined in my report. 11 my overall opinions, at least not on the 12 Q. In analyzing the Bradford Hill 12 surface. 13 criteria, did you conduct a meta-analysis of 13 Q. Did you cite all of the studies 14 the available data to reach a conclusion 14 that you believe in one way or another support your opinions in this case? 15 about the relative risk? 15 16 16 A. I don't think so. A. No. I did not. 17 Why didn't you conduct a 17 O. You believe there are 18 meta-analysis for this case? 18 additional studies that support your opinions 19 A. I did not have the time to do a 19 that you did not cite? 20 meta-analysis in this case, first of all. 20 They're in the literature list. A. 21 21 Secondly, there have been a number of other Did you cite the opinions that 22 meta-analyses performed, and I had those 22 refuted -- strike that. 23 results available to me in addition to 23 Did you cite the studies that 24 various reviews of the literature that have 24 refuted your opinions in this matter?

| | Page 218 | | Page 220 |
|--|---|---|---|
| 1 | A. I cited some studies that had | 1 | more detail to be able to answer that |
| 2 | opinions that or that had conclusions that | 2 | specifically. |
| 3 | did not necessarily agree with mine, but I | 3 | Q. Well, essentially, based upon |
| 4 | don't think they refuted my conclusions. | 4 | its analysis as of 2014, the FDA concluded |
| 5 | Q. Do you believe the standard for | 5 | that causation had not been established as |
| 6 | proving causation in the scientific | 6 | between genital talcum powder use and ovarian |
| 7 | literature is the same one that applies in | 7 | cancer or an increased risk of ovarian |
| 8 | this litigation? | 8 | cancer, correct? |
| 9 | MS. O'DELL: Object to the | 9 | A. Well, it said that an updated |
| 10 | form. | 10 | review failed to identify any new compelling |
| 11 | A. I don't know that. | 11 | literature data or new scientific evidence. |
| 12 | BY MR. ZELLERS: | 12 | I don't think they indicate here that they |
| 13 | Q. A document you brought here | 13 | actually did a standard review of that |
| 14 | today was an FDA letter? | 14 | literature. |
| 15 | A. Yeah, I think you marked it. | 15 | Q. Well, take a look, if you will, |
| 16 | Q. I did mark it. Why don't you | 16 | at page 4. The FDA sets forth its |
| 17 | see if you could find it so I can ask you a | 17 | epidemiology and etiology findings; is that |
| 18 | couple of questions about it. | 18 | right? |
| 19 | A. There it is. That one? | 19 | A. Yes. |
| 20 | Q. Yes. Exhibit 10 is an FDA | 20 | Q. The FDA has a number of very |
| 21 | letter dated April 1st of 2014 to a | 21 | capable physicians, scientists, |
| 22 | Dr. Epstein; is that right? | 22 | toxicologists, pharmacologists and medical |
| 23 | A. Yes. | 23 | professionals; is that right? |
| 24 | Q. That is a document that you | 24 | MS. O'DELL: Object to the |
| | Q. That is a document that you | | MB. & BEEE. & Soject to the |
| | Page 219 | | Page 221 |
| 1 | reviewed and considered as part of your | 1 | form. |
| 2 | analysis of this case; is that right? | 2 | A. I don't know if they're still |
| 3 | A. Yes. | 3 | working, but they have good people on staff. |
| 4 | Q. Do you believe that that | 4 | BY MR. ZELLERS: |
| 5 | exhibit, Exhibit 10, is supportive of your | 5 | Q. And just so, a year or two or |
| 6 | opinions in this matter? | _ | |
| | | 6 | three, if this transcript is ever reviewed, |
| 7 | A. I don't think it's very | 6 7 | three, if this transcript is ever reviewed, we are in the midst of a shutdown of at least |
| 7 8 | A. I don't think it's very supportive. It's it's in response to a | 1 | |
| | | 7 | we are in the midst of a shutdown of at least |
| 8 | supportive. It's it's in response to a proposal from a citizens voluntary agency to provide more stringent labeling on talcum | 7 8 | we are in the midst of a shutdown of at least portions of the government; is that right? |
| 8 9 | supportive. It's it's in response to a proposal from a citizens voluntary agency to | 7 8 9 | we are in the midst of a shutdown of at least portions of the government; is that right? A. That's correct. |
| 8 9 10 | supportive. It's it's in response to a proposal from a citizens voluntary agency to provide more stringent labeling on talcum | 7 8 9 10 | we are in the midst of a shutdown of at least portions of the government; is that right? A. That's correct. Q. And that is what your comment |
| 8 9 10 11 | supportive. It's it's in response to a proposal from a citizens voluntary agency to provide more stringent labeling on talcum powder products, and the agency rejected | 7 8 9 10 11 | we are in the midst of a shutdown of at least portions of the government; is that right? A. That's correct. Q. And that is what your comment was directed to, correct? |
| 8 9 10 11 12 | supportive. It's it's in response to a proposal from a citizens voluntary agency to provide more stringent labeling on talcum powder products, and the agency rejected the that petition. | 7 8 9 10 11 12 | we are in the midst of a shutdown of at least portions of the government; is that right? A. That's correct. Q. And that is what your comment was directed to, correct? A. That is correct. Q. On page 4 the FDA states: After consideration of the scientific |
| 8 9 10 11 12 13 | supportive. It's it's in response to a proposal from a citizens voluntary agency to provide more stringent labeling on talcum powder products, and the agency rejected the that petition. Q. The FDA is the regulatory body | 7 8 9 10 11 12 13 | we are in the midst of a shutdown of at least portions of the government; is that right? A. That's correct. Q. And that is what your comment was directed to, correct? A. That is correct. Q. On page 4 the FDA states: |
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| | Page 222 | | Page 224 |
|--|--|--|--|
| 1 | cancer risk. | 1 | form. |
| 2 | Did I read that correctly? | 2 | A. That is correct. |
| 3 | A. You did read it correctly. | 3 | BY MR. ZELLERS: |
| 4 | Q. Does that appear to be at least | 4 | Q. You are a paid expert for the |
| 5 | one of the conclusions of the FDA after | 5 | plaintiffs in this litigation; is that right? |
| 6 | considering the scientific literature as of | 6 | A. That is correct. |
| 7 | early 2014? | 7 | Q. To your knowledge, the FDA is |
| 8 | MS. O'DELL: Object to the | 8 | not paid well, let me withdraw that. |
| 9 | form. | 9 | A. I wouldn't go out on a limb |
| 10 | A. Yes, that is listed as an FDI | 10 | there. |
| 11 | finding FDA finding. | 11 | Q. Number 4, Conclusion 4, a |
| 12 | BY MR. ZELLERS: | 12 | cogent biological mechanism by which talc |
| 13 | Q. The FDA noted that a | 13 | might lead to ovarian cancer is lacking. |
| 14 | dose-response strike that. | 14 | Exposure to talc does not account for all |
| 15 | The FDA noted that | 15 | cases of ovarian cancer and there was no |
| 16 | dose-response evidence is lacking; is that | 16 | scientific consensus on the proportion of |
| 17 | right? | 17 | ovarian cancer cases that may be caused by |
| 18 | A. A dose-response | 18 | talc exposure. |
| 19 | Q. Two things. The FDA notes that | 19 | Was that a conclusion of the |
| 20 | there's a lack of consistency in the study | 20 | FDA based upon its review of the |
| 21 | results, correct? | 21 | epidemiologic literature? |
| 22 | MS. O'DELL: Where are you | 22 | MS. O'DELL: Object to the |
| 23 | reading? I'm sorry. | 23 | form. |
| 24 | MR. ZELLERS: I'm looking at | 24 | A. Yes, it was, and it's one that |
| | With EEEEERO. Tim footning at | | 120 1 05, 10 05, 0210 100 0210 0210 |
| | Page 223 | | Page 225 |
| 1 | Conclusion 3. | 1 | I also disagree with. |
| 2 | THE WITNESS: Point 3. | 2 | BY MR. ZELLERS: |
| 3 | A. They found that the | 3 | Q. IARC also considered the |
| 4 | case-control studies did not demonstrate a | 4 | Bradford Hill considerations; is that right? |
| 5 | consistent positive association across | 5 | A. Yes, it did. |
| 6 | studies; although some studies have found | 6 | Q. IARC rejected classification of |
| 7 | small positive associations between talc and | 7 | talc as a carcinogenic, instead assigning it |
| 8 | ovarian cancer, but lower confidence limits | 8 | to the classification of possibly |
| 9 | are often close to 1, and dose-response | 9 | carcinogenic to humans; is that correct? |
| 10 | evidence is lacking. | 10 | A. That's correct. |
| 11 | BY MR. ZELLERS: | 11 | Q. We've already discussed the |
| 12 | Q. That was FDA's conclusion | 12 | IARC categories briefly, but let's mark a |
| 13 | number 3 based upon its review of the | 13 | document from the IARC website as to the |
| 14 | scientific literature; is that right? | 14 | classifications, Exhibit 21. |
| | MC O'DELL. Object to the | 15 | (Carson Deposition Exhibit 21 |
| 15 | MS. O'DELL: Object to the | | |
| 16 | form. | 16 | marked.) |
| 16 17 | form. A. It's correct. It's not a valid | 16 17 | marked.) BY MR. ZELLERS: |
| 16 17 18 | form. A. It's correct. It's not a valid interpretation of the statistical results, | 16 17 18 | marked.) BY MR. ZELLERS: Q. Tell me if you recognize that. |
| 16 17 18 19 | form. A. It's correct. It's not a valid interpretation of the statistical results, but that was one of their findings. | 16 17 18 19 | marked.) BY MR. ZELLERS: Q. Tell me if you recognize that. A. Yes. |
| 16 17 18 19 20 | form. A. It's correct. It's not a valid interpretation of the statistical results, but that was one of their findings. BY MR. ZELLERS: | 16 17 18 19 20 | marked.) BY MR. ZELLERS: Q. Tell me if you recognize that. A. Yes. Q. Exhibit 21 is from the IARC |
| 16 17 18 19 20 21 | form. A. It's correct. It's not a valid interpretation of the statistical results, but that was one of their findings. BY MR. ZELLERS: Q. Well, that was their finding. | 16 17 18 19 20 21 | marked.) BY MR. ZELLERS: Q. Tell me if you recognize that. A. Yes. Q. Exhibit 21 is from the IARC website, and it goes through the |
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| 16 17 18 19 20 21 22 23 | form. A. It's correct. It's not a valid interpretation of the statistical results, but that was one of their findings. BY MR. ZELLERS: Q. Well, that was their finding. You disagree at least in part with their finding; is that right? | 16 17 18 19 20 21 22 23 | marked.) BY MR. ZELLERS: Q. Tell me if you recognize that. A. Yes. Q. Exhibit 21 is from the IARC website, and it goes through the classifications of different agents that have been made by the International Agency for |
| 16 17 18 19 20 21 | form. A. It's correct. It's not a valid interpretation of the statistical results, but that was one of their findings. BY MR. ZELLERS: Q. Well, that was their finding. You disagree at least in part with their | 16 17 18 19 20 21 22 | marked.) BY MR. ZELLERS: Q. Tell me if you recognize that. A. Yes. Q. Exhibit 21 is from the IARC website, and it goes through the classifications of different agents that have |

| | | | 1 |
|---|--|--|---|
| | Page 226 | | Page 228 |
| 1 | A. Yes, that's correct. | 1 | MS. O'DELL: Object to the |
| 2 | Q. It has studied and included 120 | 2 | form. |
| 3 | agents in the Group 1 category, which is | 3 | A. I think limited evidence also |
| 4 | carcinogenic to humans, correct? | 4 | refers to just the number of studies that |
| 5 | A. That's correct. | 5 | have been performed as well as the quality of |
| 6 | Q. That's the only category in | 6 | the studies. |
| 7 | which IARC finds sufficient evidence in | 7 | BY MR. ZELLERS: |
| 8 | humans, correct? | 8 | Q. Well, based upon the evidence |
| 9 | MS. O'DELL: Object to the | 9 | that is available, the studies that are |
| 10 | form. | 10 | available, a 2B designation by IARC means |
| 11 | A. That's the category that | 11 | that IARC cannot rule out chance, bias or |
| 12 | represents substances for which there is | 12 | confounding with reasonable confidence, |
| 13 | sufficient and irrefutable evidence of human | 13 | correct? |
| 14 | carcinogenesis. | 14 | MS. O'DELL: Objection, asked |
| 15 | BY MR. ZELLERS: | 15 | and answered. |
| 16 | Q. It lists 82 agents in Group 2A | 16 | A. Not always the case. |
| 17 | as being probably carcinogenic to humans; is | 17 | BY MR. ZELLERS: |
| 18 | that right? | 18 | Q. That's part of the definition, |
| 19 | A. That's correct. | 19 | isn't it? |
| 20 | Q. IARC is certainly willing to | 20 | A. I don't believe it applies to |
| 21 | declare agents as either a known or probable | 21 | every agent or every evaluation. |
| 22 | carcinogen; is that right? | 22 | Q. Well, I'll not take the time to |
| 23 | A. That's correct. | 23 | go through the IARC definitions; if we at the |
| 24 | Q. There is only one agent in | 24 | end of the day have extra time, we'll go back |
| | Page 227 | | Page 229 |
| 1 | Group 4, probably not carcinogenic to humans, | 1 | and we'll take a look. |
| 2 | correct? | 2 | What else is in the Class 2B, |
| 3 | A. Yes. I thought that number had | 3 | naggibly agrainagania Ginkga bilaba ig |
| 4 | | | possibly carcinogenic. Ginkgo biloba, is |
| | gone up recently, but the date here is | 4 | that something you're aware of that's in that |
| 5 | November 2018, so some may have been moved | 4 5 | that something you're aware of that's in that category? |
| 5 6 | November 2018, so some may have been moved back into Group 3. | 4 5 6 | that something you're aware of that's in that category? MS. O'DELL: Object to the |
| 5 6 7 | November 2018, so some may have been moved back into Group 3. Q. So out of the over 1,000 agents | 4 5 6 7 | that something you're aware of that's in that category? MS. O'DELL: Object to the form. |
| 5 6 7 8 | November 2018, so some may have been moved back into Group 3. Q. So out of the over 1,000 agents that IARC has reviewed, it's only placed one | 4 5 6 7 8 | that something you're aware of that's in that category? MS. O'DELL: Object to the form. A. That's a biological material. |
| 5 6 7 8 9 | November 2018, so some may have been moved back into Group 3. Q. So out of the over 1,000 agents that IARC has reviewed, it's only placed one agent in the Group 4 category, probably not | 4 5 6 7 8 9 | that something you're aware of that's in that category? MS. O'DELL: Object to the form. A. That's a biological material. BY MR. ZELLERS: |
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| | | 1 | |
|---|--|--|---|
| | Page 230 | | Page 232 |
| 1 | plausibility; is that right? | 1 | been failed attempts, but they have been |
| 2 | A. That's correct. | 2 | attempts to estimate the quantity of powder |
| 3 | Q. How much weight did you give to | 3 | that you start with and the amount that |
| 4 | the other six factors? | 4 | results in the application to the perineum by |
| 5 | A. Sufficient. | 5 | using models and actually doing some |
| 6 | Q. Why did you put less weight on | 6 | measurements and recording activities. |
| 7 | those? | 7 | BY MR. ZELLERS: |
| 8 | A. Because the strength of | 8 | Q. You did not do any modeling or |
| 9 | association, the consistency of the evidence | 9 | any assessment of the quantity of baby powder |
| 10 | and the biological plausibility of perineal | 10 | that was involved with daily use; is that |
| 11 | talc, talcum powder application as | 11 | right? |
| 12 | responsible for the occurrence of ovarian | 12 | A. No, I relied on those others. |
| 13 | cancer was compelling. | 13 | Q. When you say 30% increased |
| 14 | Q. FDA focused on dose, correct? | 14 | risk, that's a 1.3 odds ratio; is that right? |
| 15 | A. Yes. | 15 | A. That's correct. |
| 16 | Q. You did not; is that right? | 16 | Q. And that comes largely from the |
| 17 | A. That's right. | 17 | case-control studies, correct? |
| 18 | Q. The first Bradford Hill factor | 18 | MS. O'DELL: Object to the |
| 19 | that you focused on was strength of | 19 | form. |
| 20 | association. | 20 | A. Yes, but it's also consistent |
| 21 | What association does the | 21 | with some of the information from the cohort |
| 22 | literature report between talc use and | 22 | studies. |
| 23 | ovarian cancer? | 23 | BY MR. ZELLERS: |
| 24 | A. Overall, evaluating the | 24 | Q. Epidemiologists consider a 1.3 |
| | Page 231 | | Page 233 |
| 1 | universe of research, epidemiologic research | 1 | odds ratio in a case-control study to be a |
| 2 | that's been done on this, it shows an average | 2 | weak or modest association; is that right? |
| 3 | 30% increase in ovarian cancer risk for those | 3 | |
| 4 | | _ | MS. O'DELL: Object to the |
| 4 | who regularly apply talcum powder to the | 4 | MS. O'DELL: Object to the form. |
| 5 | who regularly apply talcum powder to the perineum. | | · · |
| | | 4 | form. |
| 5 | perineum. | 4 5 | form. A. That's correct. BY MR. ZELLERS: Q. Where here we're talking only |
| 5 6 | perineum. Q. Regular application of talcum | 4 5 6 | form. A. That's correct. BY MR. ZELLERS: Q. Where here we're talking only about statistical associations, not |
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| 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | perineum. Q. Regular application of talcum powder means what? A. It I believe that it means daily or thereabouts. Q. In what form of application? A. Talcum powder. Q. In what amount? A. Whatever is necessary or desired by the user. Q. Does that vary from woman to woman? A. It does. Q. Did you make any attempt to assess what regular use of talcum powder was? MS. O'DELL: Object to the form. A. There have been a couple of attempts to try to quantify what what that | 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | form. A. That's correct. BY MR. ZELLERS: Q. Where here we're talking only about statistical associations, not causation, correct? MS. O'DELL: Object to the form. A. Well, association eventually becomes causation when the when the evidence mounts to a point where it becomes recognized by all of the players that this is what's going on. A 30% increase may be classified by epidemiologists as weak or modest, but if you look at the number of women in this country who die each year from this fatal disease, that represents about 3,000 lives that could potentially be saved through prevention. |
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| | Page 234 | | Page 236 |
| 1 | MS. BOCKUS: Excuse me, I need | 1 | epidemiologists are concerned, correct? |
| 2 | to object as nonresponsive. | 2 | MS. O'DELL: Object to |
| 3 | MR. ZELLERS: Yes, join. | 3 | object to the form. |
| 4 | BY MR. ZELLERS: | 4 | A. It's an increased risk that |
| 5 | Q. There is not a consensus at | 5 | translates into human lives, so it depends on |
| 6 | this time with respect to any causation | 6 | your point of view. |
| 7 | relating to genital talc and ovarian cancer, | 7 | MS. BOCKUS: Object to form |
| 8 | is there? | 8 | I mean, sorry, nonresponsive, move to |
| 9 | MS. O'DELL: Objection to the | 9 | strike. |
| 10 | form. | 10 | MR. ZELLERS: Join. |
| 11 | A. I believe that that consensus | 11 | MS. O'DELL: Oppose. |
| 12 | is building. | 12 | DR. THOMPSON: Agreed. |
| 13 | BY MR. ZELLERS: | 13 | BY MR. ZELLERS: |
| 14 | Q. FDA that's not FDA's | 14 | Q. The 1.3 relative risk that you |
| 15 | position, correct? | 15 | believe generally applies, that would relate |
| 16 | MS. O'DELL: Object to the | 16 | to epithelial cancers; is that right? |
| 17 | form. | 17 | A. Yes. |
| 18 | A. Not at the moment. | 18 | Q. That's what you're limiting |
| 19 | BY MR. ZELLERS: | 19 | your opinions to in this case, correct? |
| 20 | Q. That's not the position of the | 20 | MS. O'DELL: Object to the |
| 21 | National Cancer Institute; is that right? | 21 | form. |
| 22 | A. That's correct. | 22 | A. Well, these opinions relate to |
| 23 | Q. That's not the position of the | 23 | several of the cancers that have shown |
| 24 | CDC; is that correct? | 24 | increases in these background epidemiologic |
| 2.1 | CDC, is that correct: | | mereases in these background epidermologic |
| | Page 235 | | Page 237 |
| 1 | A. That's correct. | 1 | studies, which include the epithelial ovarian |
| 2 | Q. IARC does not refer to any | 2 | cancers, including the serous; the borderline |
| 3 | association between perineal talc use and | 3 | cancers are also showing increases in some of |
| 4 | ovarian cancer as a strong association, does | 4 | the studies. So it's the group of those |
| 5 | it? | 5 | cancers, yes. |
| 6 | MS. O'DELL: Object to the | 6 | BY MR. ZELLERS: |
| 7 | form. | 7 | Q. The cohort studies, prospective |
| 8 | A. It calls it a Group 2B | 8 | cohort studies, have not shown an association |
| 9 | carcinogen, which is fairly significant. | 9 | between talc and ovarian cancer, correct? |
| 10 | BY MR. ZELLERS: | 10 | MS. O'DELL: Object to the |
| 11 | Q. Well, we discussed a few | 11 | form. |
| 12 | minutes ago that if an agent is a Group 2B | 12 | A. They have in some subtypes. |
| 13 | carcinogen, that is based on limited evidence | 13 | BY MR. ZELLERS: |
| 14 | in humans; is that right? | 14 | Q. There was an initial |
| 15 | A. That's correct. | 15 | description with respect to the first Nurses' |
| 16 | Q. All right. Your opinions on | 16 | study that was not supported in the update of |
| 17 | strength of association, do they apply | 17 | that study; is that correct? |
| 18 | equally to all forms of ovarian cancer? | 18 | A. The Nurses' Health Study? |
| 19 | A. No, they don't. These apply to | 19 | Q. Yes. |
| 20 | the epithelial ovarian cancer spectrum. | 20 | A. Yes, that's correct. |
| 21 | Q. Your opinions in terms of there | 21 | Q. Let's look at a different |
| 22 | being a well, let me withdraw that. | 22 | criteria, consistency. The literature does |
| 23 | We've agreed that 1.3 is not a | 23 | not show a consistent association between |
| 24 | strong association, at least insofar as | 24 | talc use and ovarian cancer, correct? |
| | | | |

| | Page 238 | | Page 240 |
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| 1 | MS. O'DELL: Object to the | 1 | ill patients in the community to healthy |
| 2 | form. | 2 | people in the community, correct? |
| 3 | A. I believe that, in fact, | 3 | A. In some cases that might be |
| 4 | research shows does show a consistent | 4 | correct, but I'm not sure that's any in |
| 5 | pattern. | 5 | any sort of world an advantage. |
| 6 | BY MR. ZELLERS: | 6 | Q. Well, shouldn't there be |
| 7 | Q. The cohort studies do not show | 7 | consistency if the Bradford Hill criteria is |
| 8 | an association between talc use and ovarian | 8 | to be well, strike that. |
| 9 | cancer as we just discussed, correct? | 9 | In applying the Bradford Hill |
| 10 | A. The basic cohort studies that | 10 | criteria of consistency, there should be |
| 11 | look at all of the subjects and all of the | 11 | consistency across different types of |
| 12 | cancers together typically do not rise to the | 12 | studies, cohort studies, hospital-based |
| 13 | level of significance. | 13 | case-control studies, and population-based |
| 14 | Q. The hospital-based case-control | 14 | case-control studies, correct? |
| 15 | studies collectively do not show an | 15 | MS. O'DELL: Object to the |
| 16 | association between talc use and ovarian | 16 | form. |
| 17 | cancer, correct? | 17 | A. That's correct. |
| 18 | A. I sort of discount the | 18 | BY MR. ZELLERS: |
| 19 | distinction between the hospital-based | 19 | Q. Isn't the absence of an |
| 20 | studies and the community-based studies. I'm | 20 | association in the cohort studies especially |
| 21 | not sure whether there are valid reasons to | 21 | significant in that the study design for the |
| 22 23 | consider those differently. Q. We've discussed earlier that | 22 | cohort studies reduces the likelihood of |
| 23 | | 23 | recall bias? |
| 24 | you are not an epidemiologist; is that right? | 24 | A. There are many forms of bias |
| | Page 239 | | |
| | Page 239 | | Page 241 |
| 1 | MS. O'DELL: Object to the | 1 | Page 241 that study designers need to consider in the |
| 1 2 | | 1 2 | |
| | MS. O'DELL: Object to the | l | that study designers need to consider in the |
| 2 3 4 | MS. O'DELL: Object to the form, misstates his testimony. A. I don't think I necessarily agreed to that characterization because I | 2 3 4 | that study designers need to consider in the process of designing a study, and there are even more types of bias that are discovered after a study has begun. |
| 2 3 4 5 | MS. O'DELL: Object to the form, misstates his testimony. A. I don't think I necessarily agreed to that characterization because I deal a lot with epidemiologic work. I'm a | 2 | that study designers need to consider in the process of designing a study, and there are even more types of bias that are discovered after a study has begun. You can fault case-control |
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| 2 3 4 5 6 7 | MS. O'DELL: Object to the form, misstates his testimony. A. I don't think I necessarily agreed to that characterization because I deal a lot with epidemiologic work. I'm a faculty member in the Department of Epidemiology at the University of Texas | 2 3 4 5 6 7 | that study designers need to consider in the process of designing a study, and there are even more types of bias that are discovered after a study has begun. You can fault case-control studies for being particularly sensitive to recall bias, but many of these authors who |
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| | Page 242 | | Page 244 |
|--|---|--|---|
| 1 | explains the difference between the cohort | 1 | paragraph. Reading from the second full |
| 2 | studies and the retrospective case-control | 2 | paragraph, the authors discuss the fact that |
| 3 | studies? | 3 | the association between genital talc use and |
| 4 | MS. O'DELL: Object to form, | 4 | risk of ovarian cancer is present in |
| 5 | asked and answered. | 5 | case-control but not in cohort studies, can |
| 6 | A. I don't believe that that is | 6 | be attributed to bias in the former type of |
| 7 | the case. | 7 | studies; is that right? |
| 8 | BY MR. ZELLERS: | 8 | <u> </u> |
| | | | MS. O'DELL: Object to the |
| 9 | Q. Is it possible? | 9 | form. |
| 10 | MS. O'DELL: Objection. | 10 | A. That's what it says. |
| 11 | A. Theoretically it would be | 11 | BY MR. ZELLERS: |
| 12 | possible. | 12 | Q. Then continuing down: |
| 13 | BY MR. ZELLERS: | 13 | Information bias from retrospective |
| 14 | Q. Are you familiar with the | 14 | self-report of talc use is a possible |
| 15 | Berge Berge 2017 study? | 15 | explanation for the association detected in |
| 16 | A. Yes. | 16 | case-control studies. |
| 17 | Q. Is that a study that you cite | 17 | Is that right? |
| 18 | and reviewed and rely on? | 18 | A. That's what it says. |
| 19 | A. It was a meta-analysis. | 19 | Q. What was your methodology for |
| 20 | Q. Is that a meta-analysis that | 20 | discounting the effect of recall bias in the |
| 21 | you cite, review and have relied upon? | 21 | population-based case-control studies? |
| 22 | A. Yes. | 22 | A. The fact that several authors |
| 23 | Q. Take a look, if you will, at | 23 | discussed the possibility of recall bias and |
| 24 | Exhibit 22. | 24 | incorporated methodology for avoiding recall |
| | | | |
| | | | |
| | Page 243 | | Page 245 |
| 1 | | 1 | |
| 1 2 | (Carson Deposition Exhibit 22 | 1 2 | bias, for example, placing parallel questions |
| 2 | (Carson Deposition Exhibit 22 marked.) | | bias, for example, placing parallel questions that should be affected in the same way, and |
| | (Carson Deposition Exhibit 22 marked.) THE WITNESS: Thank you. | 2 | bias, for example, placing parallel questions that should be affected in the same way, and still showed a positive result for tale and |
| 2 3 4 | (Carson Deposition Exhibit 22 marked.) THE WITNESS: Thank you. MS. O'DELL: Thank you. | 2 3 4 | bias, for example, placing parallel questions that should be affected in the same way, and still showed a positive result for talc and ovarian cancer is one reason. |
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| | Page 246 | | Page 248 |
|---|--|--|---|
| 1 | concluded that 15 out of the 30 case-control | 1 | page. |
| 2 | studies reported a statistically significant | 2 | MS. O'DELL: Object to the |
| 3 | association between genital talc use and | 3 | form. |
| 4 | ovarian cancer, correct? | 4 | BY MR. ZELLERS: |
| 5 | A. That's correct, but you're | 5 | Q. Is that the conclusion of the |
| 6 | not you're not talking about the other 15. | 6 | authors? |
| 7 | Q. The hospital-based case-control | 7 | A. What I'm reading here is on |
| 8 | studies collectively do not show a | 8 | balance, the epidemiological evidence |
| 9 | statistically significant association between | 9 | suggests that the use of cosmetic talc in the |
| 10 | talc use and ovarian cancer, correct? | 10 | perineal area may be associated with ovarian |
| 11 | MS. O'DELL: Object to the | 11 | cancer risk. The mechanism of |
| 12 | form. | 12 | carcinogenicity may be related to |
| 13 | A. I don't know that that is the | 13 | inflammation. |
| 14 | case. | 14 | Q. Take a look at the paragraph on |
| 15 | BY MR. ZELLERS: | 15 | the right-hand side under Proposal to |
| 16 | Q. You don't know that it's not | 16 | Research Community. I'm looking at the |
| 17 | the case; you'd have to go back and relook at | 17 | second page of the Langseth article. |
| 18 | the studies, fair? | 18 | Are you there? |
| 19 | A. I'd have to look through here, | 19 | A. Yes, I am. |
| 20 | which I'm happy to do if you want me to, but | 20 | Q. The authors state: The current |
| 21 | I don't believe that that's the case. | 21 | body of experimental and epidemiological |
| 22 | Q. In fact, the author, you cite | 22 | evidence is insufficient to establish a |
| 23 | the Langseth paper, a 2008 paper, as | 23 | causal association between perineal use of |
| 24 | supportive of your position; is that right? | 24 | talc and ovarian cancer risk. |
| | | | |
| | Page 247 | | Page 249 |
| 1 | A. Yes. | 1 | Is that right? |
| 2 | Q. I'll mark that | 2 | MS. O'DELL: Object to the |
| 3 | Deposition Exhibit 23. | 3 | form. |
| 4 | A. I think it was 2004, was it | 4 | A. That's what it says. |
| 5 | not? | 5 | BY MR. ZELLERS: |
| 6 | Q. Well, I'm going to hand it to | 6 | Q. Experimental research is needed |
| 7 | you and we can look at it together. | | |
| _ | • | 7 | to better characterize deposition, retention |
| 8 | (Carson Deposition Exhibit 23 | 8 | to better characterize deposition, retention and clearance of talc to evaluate the ovarian |
| 9 | (Carson Deposition Exhibit 23 marked.) | 8 9 | to better characterize deposition, retention and clearance of talc to evaluate the ovarian carcinogenicity of talc. |
| 9 | (Carson Deposition Exhibit 23 marked.) A. Okay. | 8 9 10 | to better characterize deposition, retention and clearance of talc to evaluate the ovarian carcinogenicity of talc. Is that what the authors state? |
| 9 10 11 | (Carson Deposition Exhibit 23 marked.) A. Okay. BY MR. ZELLERS: | 8 9 10 11 | to better characterize deposition, retention and clearance of talc to evaluate the ovarian carcinogenicity of talc. Is that what the authors state? A. Well, that's what it says, but |
| 9 10 11 12 | (Carson Deposition Exhibit 23 marked.) A. Okay. BY MR. ZELLERS: Q. You're familiar with the | 8 9 10 11 12 | to better characterize deposition, retention and clearance of talc to evaluate the ovarian carcinogenicity of talc. Is that what the authors state? A. Well, that's what it says, but it says much more. In fact, the editors of |
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| | Page 250 | | Page 252 |
|--|--|--|---|
| 1 | So I | 1 | doesn't happen. |
| 2 | Q. And then the conclusion is what | 2 | Q. Is it your testimony that the |
| 3 | I read, that: The current body of | 3 | cohort studies relating to genital talc use |
| 4 | experimental and epidemiological evidence is | 4 | and ovarian cancer are spinning the roulette |
| 5 | insufficient to establish a causal | 5 | wheel? |
| 6 | association between perineal use of talc and | 6 | MS. O'DELL: Object to the |
| 7 | ovarian cancer risk. | 7 | form. |
| 8 | Correct? | 8 | A. In terms of the power of the |
| 9 | MS. O'DELL: Object to the | 9 | studies to detect a meaningful difference |
| 10 | form. | 10 | among the subjects, yes. |
| 11 | A. That is what it says, but this | 11 | BY MR. ZELLERS: |
| 12 | was accepted in 2007, which was now 12 years | 12 | Q. That's your testimony as an |
| 13 | ago. | 13 | expert in this case; is that right? |
| 14 | BY MR. ZELLERS: | 14 | A. It is my testimony that cohort |
| 15 | Q. Let me ask you about the cohort | 15 | studies, including these, are chronic or |
| 16 | studies. They involved a much greater number | 16 | quite often underpowered simply because of |
| 17 | of women than the case-controlled studies; is | 17 | the expense associated with performing these |
| 18 | | 18 | studies. |
| 19 | that right? | | |
| 20 | MS. O'DELL: Object to the form. | 19 20 | Q. What analysis did you do to conclude that the cohort studies in this |
| 21 | | 21 | |
| | A. Well, they did not involve more | | area, the four cohort studies, are |
| 22 | cases, but they involved more women because | 22 | underpowered? |
| 23 | in order to do a cohort study, you have to | 23 | A. Like I just mentioned to you, I |
| 24 | start with a huge group of people and wait | 24 | read the studies and looked at their |
| | Page 251 | | Page 253 |
| 1 | for them to develop cancers, and then count | 1 | conclusions, and their conclusions were not |
| 2 | those cancers. | 2 | that the effect didn't exist, but they |
| 3 | BY MR. ZELLERS: | 3 | couldn't detect it. |
| 4 | Q. What was your methodology for | 4 | MR. ZELLERS: Let's go off the |
| 5 | weighing the power of the cohort studies | 5 | record because we need to change our |
| 6 | versus the case-control studies? | 6 | tape. |
| 7 | A. The cohort studies, it wasn't | 7 | THE VIDEOGRAPHER: We're off |
| 8 | apparent in every research report exactly how | 8 | the record at 3:06, end of Tape 3. |
| 9 | they had done their sample size calculations | 9 | (Recess taken, 3:06 p.m. to |
| 10 | and power determinations, but in many cases | 10 | 3:19 p.m.) |
| 11 | the lack of arriving at conclusions was | 11 | THE VIDEOGRAPHER: We're on the |
| 12 | simply due to an inability to detect an | 12 | record at 3:19, beginning of Tape 4. |
| | effect in the cohort studies, not that they | 13 | BY MR. ZELLERS: |
| 13 | | | Q. Dr. Carson, you are not a |
| 13 14 | * | 14 | |
| 14 | detected that there was not an effect. And | 14 15 | |
| 14 15 | detected that there was not an effect. And that's unfortunately a disadvantage of an | 15 | statistician, correct? |
| 14 15 16 | detected that there was not an effect. And that's unfortunately a disadvantage of an underpowered study. | 15 16 | statistician, correct? A. That's correct. |
| 14 15 16 17 | detected that there was not an effect. And that's unfortunately a disadvantage of an underpowered study. Q. Is it your testimony that the | 15 16 17 | statistician, correct? A. That's correct. Q. You are not a biostatistician; |
| 14 15 16 17 18 | detected that there was not an effect. And that's unfortunately a disadvantage of an underpowered study. Q. Is it your testimony that the cohort studies are underpowered? | 15 16 17 18 | statistician, correct? A. That's correct. Q. You are not a biostatistician; is that right? |
| 14 15 16 17 18 19 | detected that there was not an effect. And that's unfortunately a disadvantage of an underpowered study. Q. Is it your testimony that the cohort studies are underpowered? A. I think by and large most | 15 16 17 18 19 | statistician, correct? A. That's correct. Q. You are not a biostatistician; is that right? A. That's right. |
| 14 15 16 17 18 19 20 | detected that there was not an effect. And that's unfortunately a disadvantage of an underpowered study. Q. Is it your testimony that the cohort studies are underpowered? A. I think by and large most cohort studies are underpowered and | 15 16 17 18 19 20 | statistician, correct? A. That's correct. Q. You are not a biostatistician; is that right? A. That's right. Q. Do you agree that some of the |
| 14 15 16 17 18 19 20 21 | detected that there was not an effect. And that's unfortunately a disadvantage of an underpowered study. Q. Is it your testimony that the cohort studies are underpowered? A. I think by and large most cohort studies are underpowered and because power calculations are based on | 15 16 17 18 19 20 21 | statistician, correct? A. That's correct. Q. You are not a biostatistician; is that right? A. That's right. Q. Do you agree that some of the case-control studies have shown statistically |
| 14 15 16 17 18 19 20 21 22 | detected that there was not an effect. And that's unfortunately a disadvantage of an underpowered study. Q. Is it your testimony that the cohort studies are underpowered? A. I think by and large most cohort studies are underpowered and because power calculations are based on chance. Investigators are sort of spinning | 15 16 17 18 19 20 21 22 | statistician, correct? A. That's correct. Q. You are not a biostatistician; is that right? A. That's right. Q. Do you agree that some of the case-control studies have shown statistically significant findings and others have not? |
| 14 15 16 17 18 19 20 21 | detected that there was not an effect. And that's unfortunately a disadvantage of an underpowered study. Q. Is it your testimony that the cohort studies are underpowered? A. I think by and large most cohort studies are underpowered and because power calculations are based on | 15 16 17 18 19 20 21 | statistician, correct? A. That's correct. Q. You are not a biostatistician; is that right? A. That's right. Q. Do you agree that some of the case-control studies have shown statistically |

| | Page 254 | | Page 256 |
|---|---|--|---|
| 1 | statistically significant association, it | 1 | front of you? |
| 2 | could mean that no risk exists, as we've | 2 | A. I do. |
| 3 | discussed; is that right? | 3 | I would also add that the |
| 4 | A. That's correct. | 4 | Penninkilampi meta-analysis also found a |
| 5 | Q. What methodology did you use to | 5 | dose-response. |
| 6 | weigh the lack of statistical significance | 6 | Q. Do you mention Penninkilampi at |
| 7 | across studies? | 7 | all in your report? |
| 8 | MS. O'DELL: Object to the | 8 | A. It's cited. |
| 9 | form. | 9 | Q. In the body of your report? |
| 10 | A. Across all of the case-control | 10 | A. I think it's in there |
| 11 | studies? | 11 | somewhere. |
| 12 | BY MR. ZELLERS: | 12 | Q. You believe it is; is that |
| 13 | Q. Yes. | 13 | right? |
| 14 | A. I simply treated them as | 14 | A. I do. |
| 15 | isolated research designs that were done on | 15 | Q. Well, I'll ask you a couple of |
| 16 | different populations in different places | 16 | questions about it then. |
| 17 | with different considerations. They were not | 17 | Before I do, let's talk a |
| 18 | • | 18 | |
| 19 | necessarily comparable, like apples to apples | 19 | little bit more about your report. So go to |
| 20 | or oranges to oranges; they were very different studies in most cases, and so I | 20 | page 7. You state at the very top of that |
| | | | page that it has been difficult to estimate |
| 21 | felt it was important to allow their findings | 21 | dose in order to evaluate the dose-response |
| 22 | to stand on their own. | 22 | relationship for ovarian cancer; is that |
| 23 | Q. I want to talk to you about | 23 | right? |
| 24 | dose-response. That's another of the | 24 | A. That's correct. |
| | Page 255 | | Page 257 |
| 1 | Bradford Hill criteria; is that right? | 1 | Q. You state that it also has been |
| 2 | A. That's correct. | 2 | difficult to exactly estimate the quantity of |
| 3 | Q. Which studies show a | 3 | talcum powder administration during personal |
| 4 | dose-response, talc exposure and ovarian | 4 | hygiene activities; is that right? |
| 5 | cancer? | | mygiche activities, is that right. |
| 6 | currect. | 5 | A. That's correct. |
| U | | 5 6 | A. That's correct. |
| 7 | A. Let me see here. I'm looking | | A. That's correct.Q. Let's look at a couple of the |
| | A. Let me see here. I'm looking at my notes. The Harlow study from 1992 | 6 | A. That's correct. Q. Let's look at a couple of the studies that you believe do, in fact, show a |
| 7 8 | A. Let me see here. I'm looking at my notes. The Harlow study from 1992 showed a dose-response, and the Cramer 2016 | 6 7 8 | A. That's correct. Q. Let's look at a couple of the studies that you believe do, in fact, show a dose-response. The Penninkilampi, that's a |
| 7 8 9 | A. Let me see here. I'm looking at my notes. The Harlow study from 1992 showed a dose-response, and the Cramer 2016 study showed a dose trend with strong odds | 6 7 8 9 | A. That's correct. Q. Let's look at a couple of the studies that you believe do, in fact, show a dose-response. The Penninkilampi, that's a meta-analysis, 2018; is that right? |
| 7 8 9 10 | A. Let me see here. I'm looking at my notes. The Harlow study from 1992 showed a dose-response, and the Cramer 2016 study showed a dose trend with strong odds ratios for premenopausal women and hormone | 6 7 8 9 10 | A. That's correct. Q. Let's look at a couple of the studies that you believe do, in fact, show a dose-response. The Penninkilampi, that's a meta-analysis, 2018; is that right? A. That's correct. |
| 7 8 9 10 11 | A. Let me see here. I'm looking at my notes. The Harlow study from 1992 showed a dose-response, and the Cramer 2016 study showed a dose trend with strong odds ratios for premenopausal women and hormone therapy-treated women with greater than | 6 7 8 9 10 11 | A. That's correct. Q. Let's look at a couple of the studies that you believe do, in fact, show a dose-response. The Penninkilampi, that's a meta-analysis, 2018; is that right? A. That's correct. Q. That study does not consider or |
| 7 8 9 10 11 12 | A. Let me see here. I'm looking at my notes. The Harlow study from 1992 showed a dose-response, and the Cramer 2016 study showed a dose trend with strong odds ratios for premenopausal women and hormone therapy-treated women with greater than 24 years of exposure. | 6 7 8 9 10 11 12 | A. That's correct. Q. Let's look at a couple of the studies that you believe do, in fact, show a dose-response. The Penninkilampi, that's a meta-analysis, 2018; is that right? A. That's correct. Q. That study does not consider or include the Gertic 2010 cohort study; is that |
| 7 8 9 10 11 12 13 | A. Let me see here. I'm looking at my notes. The Harlow study from 1992 showed a dose-response, and the Cramer 2016 study showed a dose trend with strong odds ratios for premenopausal women and hormone therapy-treated women with greater than 24 years of exposure. The Schildkraut study, also a | 6 7 8 9 10 11 12 13 | A. That's correct. Q. Let's look at a couple of the studies that you believe do, in fact, show a dose-response. The Penninkilampi, that's a meta-analysis, 2018; is that right? A. That's correct. Q. That study does not consider or include the Gertic 2010 cohort study; is that right? |
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| | Page 258 | | Page 260 |
|--|--|--|---|
| 1 | MS. O'DELL: You need help? | 1 | Q. This is my highlighted copy, so |
| 2 | THE WITNESS: Okay. | 2 | I'm sure it wasn't yours. |
| 3 | BY MR. ZELLERS: | 3 | A. I'm sorry. |
| 4 | Q. And I misspoke. I meant to | 4 | Q. That's all right. We'll |
| 5 | refer to Gates, the updated Nurses' study. | 5 | take your time. |
| 6 | So Gates 2010. | 6 | A. Here we are. |
| 7 | A. Yes, it appears that Gates is | 7 | O. Got it, Exhibit 20? |
| 8 | not included in the in the spectrum of | 8 | A. I think so. |
| 9 | studies considering; the Gertic study does | 9 | Q. Do you have the Cramer study in |
| 10 | appear. | 10 | front of you? |
| 11 | Q. Gates 2010 is an important | 11 | A. I do. |
| 12 | cohort study in this area, would you agree? | 12 | Q. It's a retrospective |
| 13 | MS. O'DELL: Object to the | 13 | case-control study published in 2016; is that |
| 14 | form. | 14 | right? |
| 15 | | 15 | A. That's correct. |
| | A. It's important, but I think it | 16 | |
| 16 | may be considered one of the ones that | | • |
| 17 | suffered from power issues. It wasn't able | 17 | results on page 337, Table 1. |
| 18 | to determine a relative risk in the | 18 | Do you see that? |
| 19 | population that it assessed. | 19 | A. Yes. |
| 20 | BY MR. ZELLERS: | 20 | Q. This table shows the risk of |
| 21 | Q. There are a number of the | 21 | ovarian cancer for women who use talc, talcum |
| 22 | case-control studies that did not determine a | 22 | powder, daily; is that right? |
| 23 | relative risk, at least of statistical | 23 | MS. O'DELL: Object to the |
| 24 | significance, correct? | 24 | form. |
| | | | |
| | Page 259 | | Page 261 |
| 1 | | 1 | Page 261 A. It does. |
| 1 2 | A. Well, they determined odds | 1 2 | |
| 2 | A. Well, they determined odds ratios, which is the equivalent of relative | | A. It does. BY MR. ZELLERS: |
| 2 3 | A. Well, they determined odds ratios, which is the equivalent of relative risk for a case-control study. | 2 | A. It does. BY MR. ZELLERS: Q. And it's four different periods |
| 2 3 4 | A. Well, they determined odds ratios, which is the equivalent of relative risk for a case-control study. Q. And in a number of those | 2 | A. It does. BY MR. ZELLERS: Q. And it's four different periods of time; one year, one to five years, five to |
| 2 3 4 5 | A. Well, they determined odds ratios, which is the equivalent of relative risk for a case-control study. Q. And in a number of those case-control studies, at least 15 out of the | 2 3 4 | A. It does. BY MR. ZELLERS: Q. And it's four different periods of time; one year, one to five years, five to 20 years and more than 20 years; is that |
| 2 3 4 5 6 | A. Well, they determined odds ratios, which is the equivalent of relative risk for a case-control study. Q. And in a number of those case-control studies, at least 15 out of the 30 relative risk was not or strike that | 2 3 4 5 | A. It does. BY MR. ZELLERS: Q. And it's four different periods of time; one year, one to five years, five to 20 years and more than 20 years; is that right? |
| 2 3 4 5 6 7 | A. Well, they determined odds ratios, which is the equivalent of relative risk for a case-control study. Q. And in a number of those case-control studies, at least 15 out of the 30 relative risk was not or strike that statistical significance was not achieved in | 2 3 4 5 6 | A. It does. BY MR. ZELLERS: Q. And it's four different periods of time; one year, one to five years, five to 20 years and more than 20 years; is that right? A. That's correct. |
| 2 3 4 5 6 7 8 | A. Well, they determined odds ratios, which is the equivalent of relative risk for a case-control study. Q. And in a number of those case-control studies, at least 15 out of the 30 relative risk was not or strike that statistical significance was not achieved in the study; is that right? | 2 3 4 5 6 7 8 | A. It does. BY MR. ZELLERS: Q. And it's four different periods of time; one year, one to five years, five to 20 years and more than 20 years; is that right? A. That's correct. Q. There was only statistical |
| 2 3 4 5 6 7 8 | A. Well, they determined odds ratios, which is the equivalent of relative risk for a case-control study. Q. And in a number of those case-control studies, at least 15 out of the 30 relative risk was not or strike that statistical significance was not achieved in the study; is that right? MS. O'DELL: Object to the | 2 3 4 5 6 7 8 | A. It does. BY MR. ZELLERS: Q. And it's four different periods of time; one year, one to five years, five to 20 years and more than 20 years; is that right? A. That's correct. Q. There was only statistical significance found for the time period of one |
| 2 3 4 5 6 7 8 9 | A. Well, they determined odds ratios, which is the equivalent of relative risk for a case-control study. Q. And in a number of those case-control studies, at least 15 out of the 30 relative risk was not or strike that statistical significance was not achieved in the study; is that right? MS. O'DELL: Object to the form. | 2 3 4 5 6 7 8 9 | A. It does. BY MR. ZELLERS: Q. And it's four different periods of time; one year, one to five years, five to 20 years and more than 20 years; is that right? A. That's correct. Q. There was only statistical significance found for the time period of one to five years of use and more than 20 years |
| 2 3 4 5 6 7 8 9 10 11 | A. Well, they determined odds ratios, which is the equivalent of relative risk for a case-control study. Q. And in a number of those case-control studies, at least 15 out of the 30 relative risk was not or strike that statistical significance was not achieved in the study; is that right? MS. O'DELL: Object to the form. A. That's correct. | 2 3 4 5 6 7 8 9 10 | A. It does. BY MR. ZELLERS: Q. And it's four different periods of time; one year, one to five years, five to 20 years and more than 20 years; is that right? A. That's correct. Q. There was only statistical significance found for the time period of one to five years of use and more than 20 years of use; is that right? |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | A. Well, they determined odds ratios, which is the equivalent of relative risk for a case-control study. Q. And in a number of those case-control studies, at least 15 out of the 30 relative risk was not or strike that statistical significance was not achieved in the study; is that right? MS. O'DELL: Object to the form. A. That's correct. BY MR. ZELLERS: Q. Let's look at the Cramer paper. We've talked about this earlier. A. Which one, the 2016? Q. Exhibit 20, yes, 2016. A. Okay. Q. This is another study that you cite as being supportive of your dose-response opinion; is that right? A. Yes. | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | A. It does. BY MR. ZELLERS: Q. And it's four different periods of time; one year, one to five years, five to 20 years and more than 20 years; is that right? A. That's correct. Q. There was only statistical significance found for the time period of one to five years of use and more than 20 years of use; is that right? A. For the first group, the for those who reported months year of use months per year of use. Q. Well, for the first group, which was equivalent to one year of daily use, there was no statistical significance; is that right? MS. O'DELL: Object to the form. A. That well, the there was |

| | Page 262 | | Page 264 |
|----------|---|----|--|
| 1 | BY MR. ZELLERS: | 1 | dirty, and it doesn't always work out quite |
| 2 | Q. Meaning that if you look at | 2 | that cleanly. |
| 3 | this study, that it is certainly possible | 3 | BY MR. ZELLERS: |
| 4 | that because there is not statistical | 4 | Q. All right. Do you well, let |
| 5 | significance, there could be a finding of no | 5 | me withdraw that. |
| 6 | risk, correct, no increased risk? | 6 | Confounding. You considered |
| 7 | A. That's a possibility. | 7 | and talk about confounding as another one of |
| 8 | Q. Then if we go to the next | 8 | the Bradford Hill criteria; is that right? |
| 9 | period, we do show a dose-response for talcum | 9 | MS. O'DELL: Object to the |
| 10 | powder use in the year years one to five; | 10 | form. |
| 11 | is that right? | 11 | |
| 12 | <u> </u> | 12 | <i>E,</i> 3 |
| | A. Well, one to five years of | | specificity? |
| 13 | daily use, yes. | 13 | BY MR. ZELLERS: |
| 14 | Q. But then when we look at five | 14 | Q. Well, I thought your I |
| 15 | to 20 years of daily use, there is not a | 15 | thought you said in your methodology that you |
| 16 | statistically significant association; is | 16 | applied the Bradford Hill criteria. |
| 17 | that right? | 17 | A. That's correct. |
| 18 | A. That's correct. | 18 | Q. Is confound strike that. |
| 19 | Q. But then when we go to greater | 19 | Is confounding an issue in |
| 20 | than 20 years, we do find a statistical | 20 | interpreting epidemiologic studies? |
| 21 | association; is that right? | 21 | A. Yes. |
| 22 | A. That's correct. | 22 | Q. Do you agree that there is |
| 23 | Q. If, in fact, there was a true | 23 | confounding in these studies? |
| 24 | dose-response relationship, you would expect | 24 | A. I'm sure there's confounding in |
| | Page 263 | | Page 265 |
| 1 | to see that dose-response relationship in | 1 | these studies. |
| 2 | each of these groups; is that right? | 2 | Q. You're familiar with that term, |
| 3 | MS. O'DELL: Object to the | 3 | right? |
| 4 | form. | 4 | A. Yes. |
| 5 | A. It's more like we see in the | 5 | Q. That's where the presence of |
| 6 | group directly below that, where you start | 6 | another association confuses the relationship |
| 7 | out with an odds ratio which is not | 7 | between the exposure and the disease being |
| 8 | significant but positive, and then reach a | 8 | studied; is that right? |
| 9 | significant odds ratio at one to five years | 9 | A. That's correct. |
| 10 | of daily use and a higher amount of | 10 | Q. For example, if you're studying |
| 11 | significance with five to 20 years of daily | 11 | the association between coffee and pancreatic |
| 12 | use, and still a significant odds ratio, | 12 | cancer, you need to be mindful of whether |
| 13 | which is about the same level, at greater | 13 | cigarette smoking is more common in coffee |
| 14 | than 20 years of daily use. | 14 | drinkers than the rest of the population, |
| 15 | BY MR. ZELLERS: | 15 | fair? |
| 16 | Q. Is that a yes to my question, | 16 | A. Yes. |
| 17 | that if you do have a true dose-response | 17 | Q. Coffee or strike that. |
| 18 | relationship, you would expect to see that | 18 | Cigarette smoking could be a |
| 19 | dose-response continue throughout each of the | 19 | confounder in that situation? |
| 20 | periods? | 20 | A. Possible. |
| 21 | MS. O'DELL: Object to the | 21 | Q. Because if more coffee drinkers |
| 22 | | 22 | are smokers than non-coffee drinkers, an |
| 23 | form. A. Well, it would be nice if you | 23 | are smokers than non-coffee drinkers, an association between coffee drinking and |
| | a vven n woma be nice n von | | association netween cottee armking and |
| 23 24 | did that, but epidemiologic data is very | 24 | pancreatic cancer might be due to the |

| | Page 266 | | Page 268 |
|--|---|---|---|
| 1 | smoking, not the coffee drinking; fair? | 1 | not controlled for in any of the talc/ovarian |
| 2 | A. That would be a good | 2 | cancer studies, were they? |
| 3 | description of confounding. | 3 | A. Not that I'm aware of. |
| 4 | Q. Confounding can distort results | 4 | Q. Are you aware that studies that |
| 5 | in epidemiological studies; is that right? | 5 | show a relationship between talc and ovarian |
| 6 | A. It can. | 6 | cancer did not account for confounders? |
| 7 | Q. Do you agree that residual | 7 | A. I think it's possible that many |
| 8 | confounding is possible in every | 8 | of those studies did not account for all |
| 9 | observational study? | 9 | potential confounders, but they made attempts |
| 10 | A. Yes, I think there's some form | 10 | to. |
| 11 | of confounding that's present in every | 11 | Q. For example, Terry 2013, we |
| 12 | observational study. | 12 | talked about that earlier; is that right? |
| 13 | Q. It's possible that unmeasured | 13 | A. Yes. |
| 14 | confounders may be present in every | 14 | Q. Terry 2013, that meta-analysis |
| 15 | observational study; is that right? | 15 | did not adjust for hormone replacement |
| 16 | A. That's correct. Not just | 16 | therapy usage, correct? |
| 17 | unmeasured confounders, but unrecognized | 17 | A. Yes. |
| 18 | confounders. | 18 | Q. If hormone replacement therapy |
| 19 | Q. It's impossible to say that all | 19 | is a risk factor for ovarian cancer, then the |
| 20 | known and unknown confounding factors have | 20 | Terry 2013 meta-analysis did not account for |
| 21 | been controlled for in any given study; is | 21 | that potential confounding factor, correct? |
| 22 | that right? | 22 | MS. O'DELL: Object to the |
| 23 | A. I also agree with that. | 23 | form. |
| 24 | Q. Many new factors possibly | 24 | A. Correct. |
| | Page 267 | | |
| 1 | | 1 | |
| 1 | involved in ovarian cancer risk are just | 1 | BY MR. ZELLERS: |
| 2 | being published in the literature, correct? | 2 | Q. You cannot say whether the odds |
| 3 4 | MS. O'DELL: Object to the form. | 3 | ratio of the Terry 2013 study would have been |
| | | 4 | lower if the authors had adjusted for hormone |
| 5 6 | A. I believe that is true. BY MR. ZELLERS: | 5 6 | replacement therapy usage, correct? |
| 7 | | 7 | A. I cannot say that. Yes. |
| 8 | Q. For example, history of | 8 | Q. Recall bias. You're familiar with recall bias? |
| _ | chlamydia infection, have you read about that | | WOOD (PCMILIDIAS) |
| | nossibly being involved in overion concer | | |
| 9 10 | possibly being involved in ovarian cancer | 9 | A. I am. |
| 10 | risk? | 9 | A. I am.Q. That is also a concern in every |
| 10 11 | risk? A. I haven't read that | 9 10 11 | A. I am. Q. That is also a concern in every retrospective study, correct? |
| 10 11 12 | risk? A. I haven't read that specifically. I was thinking more about the | 9 10 11 12 | A. I am. Q. That is also a concern in every retrospective study, correct? A. Yes. |
| 10 11 12 13 | risk? A. I haven't read that specifically. I was thinking more about the new information regarding genetic | 9 10 11 12 13 | A. I am. Q. That is also a concern in every retrospective study, correct? A. Yes. Q. Recall bias can distort a |
| 10 11 12 13 14 | risk? A. I haven't read that specifically. I was thinking more about the new information regarding genetic susceptibilities. | 9 10 11 12 13 14 | A. I am. Q. That is also a concern in every retrospective study, correct? A. Yes. Q. Recall bias can distort a scientific evaluation of whether an exposure |
| 10 11 12 13 14 15 | risk? A. I haven't read that specifically. I was thinking more about the new information regarding genetic susceptibilities. Q. Also, weight gain during | 9 10 11 12 13 14 | A. I am. Q. That is also a concern in every retrospective study, correct? A. Yes. Q. Recall bias can distort a scientific evaluation of whether an exposure is actually related to a disease; is that |
| 10 11 12 13 14 15 | risk? A. I haven't read that specifically. I was thinking more about the new information regarding genetic susceptibilities. Q. Also, weight gain during adolescence, is that another relatively new | 9 10 11 12 13 14 15 | A. I am. Q. That is also a concern in every retrospective study, correct? A. Yes. Q. Recall bias can distort a scientific evaluation of whether an exposure is actually related to a disease; is that right? |
| 10 11 12 13 14 15 16 | risk? A. I haven't read that specifically. I was thinking more about the new information regarding genetic susceptibilities. Q. Also, weight gain during adolescence, is that another relatively new possible ovarian cancer risk factor? | 9 10 11 12 13 14 15 16 | A. I am. Q. That is also a concern in every retrospective study, correct? A. Yes. Q. Recall bias can distort a scientific evaluation of whether an exposure is actually related to a disease; is that right? A. Yes, it can. |
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| | Page 270 | | Page 272 |
|----------|---|----------------|---|
| 1 | A. That's correct. | 1 | publicity from lawsuits might influence the |
| 2 | BY MR. ZELLERS: | 2 | participants' recall of prior body powder |
| 3 | Q. The effects of recall bias can | 3 | use; is that right? |
| 4 | be very real; is that right? | 4 | A. This was a recent study, so |
| 5 | MS. O'DELL: Object to the | 5 | that was more likely. |
| 6 | form. | 6 | Q. If you look on page 2, |
| 7 | A. I'm not sure what you mean by | 7 | right-hand side, last paragraph that starts |
| 8 | very real. | 8 | "Covariates include." |
| 9 | BY MR. ZELLERS: | 9 | Do you see that? |
| 10 | Q. Well, let's look at one of the | 10 | A. Yes. |
| 11 | studies that you cite. You cited the | 11 | Q. And I'm reading about |
| 12 | Schildkraut study in your report and you | 12 | two-thirds of the way down: Two class action |
| 13 | referred to it a bit earlier as supporting | 13 | lawsuits were filed in 2014 concerning |
| 14 | dose-response; is that right? | 14 | possible carcinogenic effects of body powder |
| 15 | A. Yes. | 15 | which may have influenced recall of use; |
| 16 | Q. That's a study by Schildkraut | 16 | therefore, year of interview 2014 or later, |
| 17 | and others titled Association Between Body | 17 | yes/no, was concluded as a covariate in the |
| 18 | Powder Use and Ovarian Cancer, the | 18 | · |
| 19 | | 19 | logistic regression models. |
| | African-American Cancer Epidemiologic or | 20 | Is that correct? |
| 20 | Epidemiology Study. | | A. That's correct. |
| 21 | Is that right? | 21 | Q. So go to page 4, Table 2. This |
| 22 | A. Yes. | 22 | is the adjusted odds ratio for the |
| 23 | Q. I've got it here for you. | 23 | associations between mode, frequency and |
| 24 | A. Okay. | 24 | duration of body powder use in ovarian |
| | Page 271 | | Page 273 |
| 1 | (Carson Deposition Exhibit 24 | 1 | cancer; is that right? |
| 2 | marked.) | 2 | A. Yes. |
| 3 | BY MR. ZELLERS: | 3 | Q. The second column shows the |
| 4 | Q. Deposition Exhibit 24 is the | 4 | number of cases, and that would be women with |
| 5 | Schildkraut study, 2016, correct? | 5 | ovarian cancer; is that right? |
| 6 | (Pause.) | 6 | A. That's correct. |
| 7 | BY MR. ZELLERS: | 7 | Q. The third column shows the |
| 8 | Q. Did you say correct? | 8 | controls; that's the women who do not have |
| 9 | A. I think I did. I'm sorry. | 9 | ovarian cancer, correct? |
| 10 | Q. That's all right. I may have | 10 | A. Yes. |
| 11 | missed it. | 11 | Q. Looking at this data before |
| 12 | Exhibit 24 is the Schildkraut | 12 | 2014, before the lawsuits, the percentage of |
| 13 | 2016 study; is that right? | 13 | controls, meaning women without ovarian |
| 14 | A. Yes. | 14 | cancer, said they used talc on their genitals |
| 15 | | | |
| 16 | | 15 | was 34%; is that right? |
| | you cite to and that you relied on in forming | 16 | So those are women who were |
| 17 | your opinions; is that right? | 17 | interviewed before 2014. |
| 18 | A. Yes. | 18 | A. Yes. Any genital use controls, |
| 19 20 | Q. The study looked at, among | 19 | 34%. |
| .)() | other things, what impact, if any, lawsuit | 20 | Q. And the controls, again, are |
| | tilings in 2014 had an whather wemen recalled | 21 | women without ovarian cancer. |
| 21 | filings in 2014 had on whether women recalled | | |
| 21 22 | using talc in the past, correct? | 22 | A. That's correct. |
| 21 | • | 22 23 24 | A. That's correct.Q. The percentage of cases,meaning women with ovarian cancer, that were |

| Page 274 Interviewed before 2014 that said they used tale on their genitals was 36.5%; is that 3 right? A. That's correct. 4 | | Arch 1. "Chip" Ca | | , |
|--|----|---|----|---------------------------------------|
| tale on their genitals was 36.5%; is that 3 right? A. That's correct. Q. So roughly the same reporting 6 of genital tale use between women with and 7 without ovarian cancer occurred for those 8 women interviewed before the lawsuits were 9 filed; is that right? 10 A. That's correct. 10 C. Then look at what happened after the lawsuits were filed in 2014. For 13 women interviewed after 2014, the percent of 4 women without ovarian cancer that said they 15 used tale on their genitals was 34.4%; is 16 that right? 17 A. That's correct. 17 Grown of the women without ovarian cancer, the 19 lawsuits had essentially no effect on how many of the women without ovarian cancer, the 21 controls, remembered or recalled using baby powder; is that right? 18 Q. So based on this data, the 19 lawsuits had essentially no effect on how many of the women without ovarian cancer, the 21 controls, remembered or recalled using baby powder; is that right? 22 Page 275 1 Q. It went from 34% to 34.4%; is 15 that right? 23 A. Well, the percentage is the 23 said they recalled using baby powder; is that right? 24 Same in both cases. 25 Page 275 1 Q. It went from 34% to 34.4%; is 15 that right? 26 Latter from 36% to 36.5% of them 5 said they recalled using baby powder; is that right? 27 A. That's correct. 19 Fage 275 1 Q. It went from 34% to 34.4%; is 16 that right? 28 A. That's correct. 19 Fage 275 19 Q. But after the lawsuits were 19 filed, the percent of women with ovarian cancer, be for the lawsuits were 19 filed, the percent of women with ovarian cancer who said they used baby powder went up to 51.5%; is that right? 29 A. That's solo correct. 19 Fage 275 10 G. It went from 34% to 34.4%; is 11 could. BY Mr. ZELLERS: 18 Page 277 11 Q. It went from 34% to 34.4%; is 11 could. BY Mr. ZELLERS: 18 Page 277 12 Q. It went from 34% to 34.4%; is 11 could. BY Mr. ZELLERS: 18 Page 277 13 A. That's and the percent of women with ovarian cancer, before the lawsuits were 19 filed, the percent of women with ovarian cancer the course of the | | Page 274 | | Page 276 |
| tale on their genitals was 36.5%; is that 3 right? A. That's correct. Q. So roughly the same reporting 6 of genital tale use between women with and 7 without ovarian cancer occurred for those 8 women interviewed before the lawsuits were 9 filed; is that right? 10 A. That's correct. 10 C. Then look at what happened after the lawsuits were filed in 2014. For 13 women interviewed after 2014, the percent of 4 women without ovarian cancer that said they 15 used tale on their genitals was 34.4%; is 16 that right? 17 A. That's correct. 17 Grown of the women without ovarian cancer, the 19 lawsuits had essentially no effect on how many of the women without ovarian cancer, the 21 controls, remembered or recalled using baby powder; is that right? 18 Q. So based on this data, the 19 lawsuits had essentially no effect on how many of the women without ovarian cancer, the 21 controls, remembered or recalled using baby powder; is that right? 22 Page 275 1 Q. It went from 34% to 34.4%; is 15 that right? 23 A. Well, the percentage is the 23 said they recalled using baby powder; is that right? 24 Same in both cases. 25 Page 275 1 Q. It went from 34% to 34.4%; is 15 that right? 26 Latter from 36% to 36.5% of them 5 said they recalled using baby powder; is that right? 27 A. That's correct. 19 Fage 275 1 Q. It went from 34% to 34.4%; is 16 that right? 28 A. That's correct. 19 Fage 275 19 Q. But after the lawsuits were 19 filed, the percent of women with ovarian cancer, be for the lawsuits were 19 filed, the percent of women with ovarian cancer who said they used baby powder went up to 51.5%; is that right? 29 A. That's solo correct. 19 Fage 275 10 G. It went from 34% to 34.4%; is 11 could. BY Mr. ZELLERS: 18 Page 277 11 Q. It went from 34% to 34.4%; is 11 could. BY Mr. ZELLERS: 18 Page 277 12 Q. It went from 34% to 34.4%; is 11 could. BY Mr. ZELLERS: 18 Page 277 13 A. That's and the percent of women with ovarian cancer, before the lawsuits were 19 filed, the percent of women with ovarian cancer the course of the | 1 | interviewed before 2014 that said they used | 1 | BY MR. ZELLERS: |
| aright? A. That's correct. Q. So roughly the same reporting of genital tale use between women with and without ovarian cancer occurred for those women interviewed before the lawsuits were filed; is that right? A. That's correct. Q. Then look at what happened after the lawsuits were filed in 2014. For women interviewed after 2014, the percent of women without ovarian cancer that said they women without ovarian cancer that said they used tale on their genitals was 34.4%; is that right? A. That's correct. B. Woll, the percent of lawsuits had essentially no effect on how many of the women without ovarian cancer, the controls, remembered or recalled using baby powder; is that right? A. Well, the percentage is the same in both cases. Page 275 Q. It went from 34% to 34.4%; is that right? A. That's correct. Q. For women with ovarian cancer, before the lawsuits were filed, 36.5% of them said they recalled using baby powder; is that right? A. That's correct. Q. For women with ovarian cancer, before the lawsuits were filed, 36.5% of them said they recalled using baby powder; is that right? A. That's correct. Q. For women with ovarian cancer, before the lawsuits were filed, 36.5% of them said they recalled using baby powder; is that right? A. That's correct. D. But after the lawsuits were filed, the percent of women with ovarian cancer who said they used baby powder went up to 51.5%; is that right? A. That's sidn right? A. That's solo correct. C. So pre-2014; is that right? A. That's laso correct. BY MR. ZELLERS: BY MR. ZELLERS: A. Probably not. Q. So pre-2014; is that right? A. Probably not. Q. If the study had been terminated as of 2014, prior to the lawsuits being filed, then the results of the study women interviewed able to the form. A. Probably not. Q. If the study had been terminated as of 2014, prior to the lawsuits being filed, then the results of the study women interviewed able to the form. A. Probably not. Q. If the study had been terminated as of 2014, prior to the lawsuits being | | | | |
| A. That's correct. 9 Genital tale use between women with and without ovarian cancer occurred for those women interviewed before the lawsuits were filed; is that right? 10 A. That's correct. 11 Q. Then look at what happened after the lawsuits were filed after the lawsuits were filed in 2014. For women interviewed after 2014, the percent of women without ovarian cancer that said they used tale on their genitals was 34.4%; is that right? 17 A. That's correct. 18 Q. So based on this data, the lawsuits had essentially no effect on how many of the women without ovarian cancer, the controls, remembered or recalled using baby powder; is that right? 19 Q. It went from 34% to 34.4%; is that right? 10 Q. It went from 34% to 34.4%; is that right? 11 Q. It went from 34% to 34.4%; is that right? 12 d. Q. For women with ovarian cancer, the controls, remembered or recalled using baby powder went up to 51.5%; is that right? 10 Q. But after the lawsuits were filed, the percent of women with ovarian cancer, is that right? 11 Q. It went from 34% to 34.4%; is that right? 12 A. That's correct. 13 A. That's correct. 14 Q. For women with ovarian cancer, is that right? 25 A. That's correct. 26 G. So pre-2014 is that right? 27 A. That's correct. 28 A. That's correct. 29 By MR. ZELLERS: 20 Q. So shere is not statistical significance pre-2014; is that right? 21 A. Probably not. 22 If the study had been terminated as of 2014, prior to the lawsuits being filed, the precent of women with ovarian cancer, is that right? 29 A. That is also correct. 20 G. So pre-2014 increase is not statistically significantly associated with an increased risk of ovarian cancer; is that right? 23 A. That is also correct. 24 Significantly significantly associated with an increased risk of ovarian cancer; is that right? 29 A. That is also correct. 20 But after the lawsuits were filed, the percent of women with ovarian cancer who said they used baby powder jumped significantly; is that right? 25 A. That is also correct. 26 A. That is als | | | | · · · · · · · · · · · · · · · · · · · |
| 5 Q. So roughly the same reporting 6 of genital tate use between women with and 7 without ovarian cancer occurred for those 8 women interviewed before the lawsuits were 9 filed; is that right? 10 A. That's correct. 11 Q. Then look at what happened 12 affer the lawsuits were filed in 2014. For 13 women interviewed after 2014, the percent of 14 women without ovarian cancer that said they 15 used tale on their genitals was 34.4%; is 16 that right? 17 A. That's correct. 18 Q. So based on this data, the 19 lawsuits had essentially no effect on how 20 many of the women ancer that said they 21 powder; is that right? 22 powder; is that right? 23 A. Well, the percentage is the 24 same in both cases. 24 same in both cases. 25 Page 275 26 It went from 34% to 34.4%; is 27 that right? 28 A. That's correct. 29 C. For women with ovarian cancer, 30 For women with ovarian cancer, 40 For women with ovarian cancer, 50 before the lawsuits were filed, 36.5% of them 51 said they recalled using baby powder; is that 7 right? 29 That's correct. 40 For women with ovarian cancer, 51 before the lawsuits were filed, 36.5% of them 52 said they recalled using baby powder; is that 7 right? 31 A. That's correct. 40 For women with ovarian cancer, 51 before the lawsuits were filed, 36.5% of them 52 said they recalled using baby powder; is that 7 right? 31 A. That's correct. 41 Q. But after the lawsuits were 52 filed, the percent of women with ovarian 53 C. That is also correct. 54 Q. Is that a significant increase 55 from 36.5%? 56 A. I don't know, but it seems like 57 if imight be. 58 Q. So after the lawsuits were 59 filed, the percent of women with ovarian 50 cancer who said they used baby powder jumped 51 significantly; is that right? 52 MS. O'DELL: Object to the 54 Gram. 55 Gram. 56 Gram. 57 MAS. O'DELL: Object to the 55 grainlas but asically had no effect on few mich at this is a right? 59 Gram. 50 Gram. 51 MAS. O'DELL: Object to the 51 fled, the percent of women with ovarian 52 Gram. 51 Gram. 52 Gram. 53 Gram. 54 A. Probably not. 64 A. Pro | | | | ** |
| of genital tale use between women with and without ovarian cancer recurred for those women interviewed before the lawsuits were filed; is that right? A. That's correct. Q. Then look at what happened after the lawsuits were filed in 2014. For women interviewed after 2014, the percent of that right? A. That's correct. A. That's correct. A. That's correct. A. That's correct. Q. So based on this data, the lawsuits had essentially no effect on how many of the women without ovarian cancer, the controls, remembered or recalled using baby powder; is that right? A. Well, the percentage is the same in both cases. Page 275 Q. It went from 34% to 34.4%; is that right? A. That's correct. Q. It went from 34% to 34.4%; is that right? A. That's correct. Q. It went from 34% to 34.5% of them said they recalled using baby powder; is that right? A. That's correct. Q. It went from 34% to 34.5% of them said they recalled using baby powder; is that right? A. That's right. A. That's correct. Q. It went from 34% to 34.5% of them said they recalled using baby powder; is that right? A. That's right. A. That's right. A. That's socrect. A. Probably not. Q. If the study had been terminated as of 2014, prior to the lawsuits been filed, the percent of women with ovarian cancer, who said they used baby powder went up to 51.5%, is that right? A. That is also correct. A. That is correct is that right? A. That is also correct. A. That as is ginificant increase from the very substitionally significantly associated with an increased risk of ovarian cancer; is th | | | l | |
| without ovarian cancer occurred for those women interviewed before the lawsuits were filed; is that right? O. Then look at what happened after the lawsuits were filed in 2014. For women interviewed after 2014, the percent of women without ovarian cancer that said they used talc on their genitals was 34.4%; is that right? A. That's correct. O. So based on this data, the lawsuits had essentially no effect on how many of the women without ovarian cancer, the controls, remembered or recalled using baby powder; is that right? A. Well, the percentage is the same in both cases. Page 275 Q. It went from 34% to 34.4%; is that right? Page 275 Q. These findings could be an example of the potential effect of recall bias; is that right? MS. O'DELL: Object to the form. A. That is correct. A. That is correct. A. That is correct. BYMR. ZELLERS: Q. These findings could be an example of the potential effect of recall bias; is that right? MS. O'DELL: Object to the form. A. That is correct. A. Well, the percentage is the same in both cases. Page 275 Page 275 Page 277 A. That's correct. A. Probably not. Q. If the study had been terminated as of 2014, prior to the lawsuits being filed, then the results of the study would have been that genital tale use was not statistically significantly associated with an increased risk of ovarian cancer; is that right? A. That is also correct. A. That is potential recall bias in weighing the Schildkraut study? A. That is potential recall bias in weighing the Schildkraut study? A. That is alone correct. A. That is potential recall bias in weighing the Schildkraut study? A. That is alone correct. A. That is potential recall bias in weighing the Schildkraut study? A. That is alone correct. A. That is potential recall bias in weighing the Schildkraut study? A. That is alone correct. A. That is potential recall bias in weighing the Schildkraut study? A. The authors did that for me by i | | | | |
| momen interviewed before the lawsuits were filed, is that right? A. That's correct. D. Then look at what happened after 2014, the percent of women without ovarian cancer that said they used tale on their genitals was 34.4%; is that right? A. That's correct. D. Then look at what happened after 2014, the percent of women without ovarian cancer that said they used tale on their genitals was 34.4%; is that right? A. That's correct. D. So based on this data, the lawsuits had essentially no effect on how many of the women without ovarian cancer, the controls, remembered or recalled using baby 22 powder; is that right? A. Well, the percentage is the same in both cases. Page 275 Page 275 D. It went from 34% to 34.4%; is that right? D. O. It went from 34% to 34.4%; is that right? D. O. It went from 34% to 34.4%; is that right? D. O. It went from 34% to 34.6%; is that right? D. O. It went from 34% to 34.6%; is that right? D. O. It went from 34% to 34.6%; is that right? D. D. It went from 34% to 3 | | | | |
| filed; is that right? A. That's correct. Q. Then look at what happened after the lawsuits were filed in 2014. For women interviewed after 2014, the percent of the women without ovarian cancer that said they used take on their genitals was 34.4%; is that right? A. That's correct. Q. So based on this data, the leaves the controls, remembered or recalled using baby pawder; is that right? A. Well, the percentage is the same in both cases. Page 275 Q. It went from 34% to 34.4%; is that right? A. That's correct. Q. It went from 34% to 34.4%; is that right? A. That's correct. Q. It went from 34% to 34.4%; is that right? A. That's correct. Q. It went from 34% to 34.5% of them said they recalled using baby powder; is that right? A. That's correct. Q. For women with ovarian cancer, the filed, 36.5% of them said they recalled using baby powder; is that right? A. That's correct. Q. For women with ovarian cancer, the filed, the percent of women with ovarian cancer who said they used baby powder went up to 51.5%; is that right? A. That is also correct. Q. So after the lawsuits were filed, 46.5% of them since who said they used baby powder went up to filed, the percent of women with ovarian cancer who said they used baby powder went up to filed, the percent of women with ovarian cancer who said they used baby powder under the form. A. That's right? A. That's right? A. That's right? A. That's is that right? A. That's is that right? A. That's right. Q. But after the lawsuits were filed, 46.5% of them said they used baby powder went up to filed, the percent of women with ovarian cancer who said they used baby powder jumped significantly; is that right? A. That's correct. A. Probably not. Q. If the study had been terminated as of 2014, prior to the lawsuits being filed, then the results of the study would have been that genital tale use was not statistically significantly associated with a nincreased risk of ovarian cancer; is that right? A. That is also correct. A. That is also correct. A. That is | | | | • |
| A. That's correct. Q. Then look at what happened after the lawsuits were filed in 2014. For two men without ovarian cancer that said they women without ovarian cancer that said they are lawsuits had essentially no effect on how many of the women without ovarian cancer, the corrols, remembered or recalled using baby powder; is that right? A. That's correct. Q. So based on this data, the lawsuits bad essentially no effect on how many of the women without ovarian cancer, the corrols, remembered or recalled using baby powder; is that right? A. Well, the percentage is the same in both cases. Page 275 Q. It went from 34% to 34.4%; is that right? A. That's correct. Q. For women with ovarian cancer, be force the lawsuits were filed, the percent of women with ovarian cancer who said they recalled using baby powder; is that right? Q. But after the lawsuits were filed, the percent of women with ovarian cancer who said they used baby powder jumped significantly; is that right? A. That is also correct. Q. So pre-2014 there was an odds ratio form. 87 to 1.63, so there is not statistical significance pre-2014; is that right? A. Probably not. Q. If the study had been terminated as of 2014, prior to the lawsuits being filed, then the results of the study would have been that genital tale use was not statistically significantly associated with an increased risk of ovarian cancer; is that right? A. That's right. By MR. ZELLERS: A. Probably not. By MR. ZELLERS: A. P | | | | |
| this demonstrates recall bias. It could. 12 | | | | |
| after the lawsuits were filed in 2014. For women interviewed after 2014, the percent of women without ovarian cancer that said they used bab powder; is that right? A. That's correct. Page 275 Q. It went from 34% to 34.4%; is that right? Q. For women without ovarian cancer, the same in both cases. Page 275 A. That's correct. Q. It went from 34% to 34.4%; is that right? A. That's correct. Q. For women with ovarian cancer, the said they recalled using baby powder, is that right? A. That's correct. Q. For women with ovarian cancer, the said they recalled using baby powder; is that right? A. That's correct. Q. For women with ovarian cancer, the said they recalled using baby powder; is that right? A. That's correct. Q. For women with ovarian cancer, the said they recalled using baby powder; is that right? A. That's correct. A. That's correct. Q. For women with ovarian cancer, the said they recalled using baby powder; is that right? A. That's right. Q. But after the lawsuits were G. But after | | | | |
| women without ovarian cancer that said they used tale on their genitals was 34.4%; is 15 used tale on their genitals was 34.4%; is 16 that right? 17 A. That's correct. 17 form. 18 Q. So based on this data, the 18 A. That is correct. 19 lawsuits had essentially no effect on how many of the women without ovarian cancer, the controls, remembered or recalled using baby 22 powder; is that right? 22 prowder; is that right? 23 A. Well, the percentage is the same in both cases. 24 same in both cases. 24 same in both cases. 25 Page 277 1 Q. It went from 34% to 34.4%; is 12 that right? 25 that right? 26 that right? 17 right? 18 A. That's correct. 18 A. Probably not. 19 Page 277 1 Q. It went from 34% to 34.4%; is 18 A. That's correct. 19 With the confidence interval ranging from .87 to 1.63, so there is not statistical significance pre-2014; is that right? 18 A. Probably not. 19 Page 277 2 Page 275 2 Page 275 2 Page 277 2 A. That's correct. 3 That's correct. 3 That's correct. 3 That's correct. 4 Q. For women with ovarian cancer, 4 before the lawsuits were filed, so.5% of them 5 said they recalled using baby powder; is that right? 19 Q. But after the lawsuits were 10 filed, the percent of women with ovarian cancer who said they used baby powder went up 12 to 51.5%; is that right? 19 MS. O'DELL: Object to the 18 from 36.5%? 15 wighting the Schildkraut study? 16 A. That is also correct. 17 with might be. 17 it might be. 18 Q. So after the lawsuits were 19 filed, the percent of women with ovarian cancer who said they used baby powder jumped 19 significantly; is that right? 19 It accounts for this difference and they recalled using baby powder jumped 19 significantly; is that right? 19 It accounts for this difference interval ranging from .87 to - strike that - from .87 to - strike that - from .87 to 1.63, so there is not statistically significant as of 2014, prior to the lawsuits were 19 filed, the percent of women with ovarian cancer, is that right? 19 prior to 2014, the data collected 19 prior to 2014, the data colle | | | | |
| women without ovarian cancer that said they used talc on their genitals was 34.4%; is that right? A. That's correct. Description of the women with ovarian cancer, the controls, remembered or recalled using baby powder, is that right? A. That's correct. Description of the women with ovarian cancer, the controls, remembered or recalled using baby powder, is that right? Description of the women with ovarian cancer, the controls, remembered or recalled using baby powder, is that right? A. Well, the percentage is the controls, remembered or recalled using baby powder, is that right? Description of the women with ovarian cancer, the controls, remembered or recalled using baby powder, is that right? Page 275 Page 275 Page 277 A. Probably not. Q. It went from 34% to 34.4%; is controls, remembered or page 275 A. That's correct. Description with ovarian cancer, controls, remembered or recalled using baby powder; is that right? A. That's correct. Description with ovarian cancer, controls, remembered or recalled using baby powder; is that right? A. That's right. Description with ovarian cancer, controls, remembered or recalled using baby powder; is that right? Description with the confidence interval ratios of 1.19 with the con | | | | |
| that right? A. That's correct. A. That's correct. By lawsuits had essentially no effect on how many of the women without ovarian cancer, the same in both cases. Page 275 A. Well, the percentage is the same in both cases. Page 275 A. That's correct. Page 275 A. That's correct. Page 275 A. Well, the percentage is the same in both cases. Page 275 A. That's correct. Page 276 A. Probably not. Page 277 A. Probably not. Page 277 A. That's correct. A. Probably not. Page 277 A. Probably not. Page 277 A. That's correct. By War. ZeLLERS: A. Well, the percentage is the same in both cases. Page 275 A. Well, the percentage is the same in both cases. Page 275 A. That's correct. A. Probably not. Q. For women with ovarian cancer, to statistical significant as of 2014, prior to the lawsuits being filed, then the results of the study would have been that genital talc use was not statistically significantly segnificantly segnificantly segnificant increase from 36.5%? A. That is also correct. A. The authors did that for me by including the period of the interview as a cofactor in the logistic regression models. A. The authors did that for me by including the period of the interview as a cofactor in the logistic regression models. A. That be trip | | | | |
| 16 that right? A. That's correct. 18 Q. So based on this data, the 19 lawsuits had essentially no effect on how 20 many of the women without ovarian cancer, the 21 controls, remembered or recalled using baby 22 powder; is that right? 23 A. Well, the percentage is the 24 same in both cases. 25 Page 275 1 Q. It went from 34% to 34.4%; is 26 that right? 27 A. That's correct. 28 Q. So pre-2014 there was an odds 29 ratio of 1.19 with the confidence interval ranging from .87 to - strike that - 20 ranging from .87 to - strike that - 21 significance pre-2014; is that right? 29 Page 275 1 Q. It went from 34% to 34.4%; is 20 Page 277 21 Q. It went from 34% to 34.4%; is 22 that right? 23 A. That's correct. 24 Q. For women with ovarian cancer, 25 before the lawsuits were filed, 36.5% of them 26 said they recalled using baby powder; is that right? 29 Q. But after the lawsuits were 20 (a) If the study had been terminated as of 2014, prior to the lawsuits would have been that genital tale use was not statistically significantly associated with an increased risk of ovarian cancer; is that right? 20 Page 277 21 A. Probably not. 22 Q. If the study had been terminated as of 2014, prior to the lawsuits would have been that genital tale use was not statistically significantly associated with an increased risk of ovarian cancer; is that right? 22 Page 275 23 A. That's right. 24 G. But after the lawsuits were 25 G. But after the lawsuits were 26 filed, the percent of women with ovarian cancer who said they used baby powder went up 27 it might be. 28 A. That is also correct. 29 MS. O'DELL: Object to the form. 20 Page 277 21 A. Probably not. 22 A. Probably not. 23 A. Probably not. 24 being filed, then the results of the study would have been that genital tale use was not statistically significantly associated with an increased risk of ovarian cancer; is that right? 29 Q. But after the lawsuits were 29 MS. O'DELL: Object to the form. 20 Q. Did you make an attempt to account for this potential recall bias in weighing the Sch | | | | |
| A. That's correct. 18 Q. So based on this data, the 19 lawsuits had essentially no effect on how 20 many of the women without ovarian cancer, the 21 controls, remembered or recalled using baby 22 powder; is that right? 23 A. Well, the percentage is the 24 same in both cases. Page 275 Page 275 Page 275 Q. It went from 34% to 34.4%; is 25 that right? Page 275 A. That's correct. Q. If the study had been 26 terminated as of 2014, prior to the lawsuits 27 before the lawsuits were filed, the percent of women with ovarian 28 A. That's right. Page 275 A. That's right. Page 275 Page 276 Page 277 A. Probably not. Q. If the study had been 29 terminated as of 2014, prior to the lawsuits 29 before the lawsuits were filed, 36.5% of them 29 statistically significantly associated with 29 an increased risk of ovarian cancer; is that right? By MR. ZELLERS: A. Probably not. Q. If the study had been 29 terminated as of 2014, prior to the lawsuits 29 would have been that genital tale use was not statistically significantly associated with 29 an increased risk of ovarian cancer; is that right? By MR. ZELLERS: A. That's correct. By MR. O'DELL: Object to the 20 form. A. Yes. By MR. ZELLERS: A. That's correct. By MR. ZELLERS: A. Yes. By MR. ZELLERS: Defore the lawsuits were of filed, the percent of women with ovarian on increased risk of ovarian cancer; is that right? A. Yes. By MR. ZELLERS: Defore the lawsuits were of filed, the percent of women with ovarian on increased risk of ovarian cancer; is that right? A. That is also correct. A. That is also correct. A. The authors did that for me by including the period of the interview as a cofactor in the logistic regression models. A. The authors did that for me by including the period of the interview as a cofactor in the logistic regression models. A. The authors did that for me by including the period of the interview as a cofactor in the logistic regression models. A. The authors did that for me by including the period of the interview as a cofactor i | | | l | |
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| many of the women without ovarian cancer, the controls, remembered or recalled using baby powder; is that right? A. Well, the percentage is the same in both cases. Page 275 Q. It went from 34% to 34.4%; is that right? A. That's correct. Q. For women with ovarian cancer, before the lawsuits were filed, 36.5% of them said they recalled using baby powder; is that right? A. That's right. Q. But after the lawsuits were filed, 36.5% of them said they recalled using baby powder went up to 51.5%; is that right? A. That's right. Q. But after the lawsuits were Q. But after the lawsuits were Q. Is that a significant increase A. That is also correct. Q. Is that a significant increase Q. So after the lawsuits were Q. You do agree there was no statisticall ysignificant finding of an odds ratio prior to 2014, the data collected | | | | |
| 21 controls, remembered or recalled using baby powder; is that right? 22 powder; is that right? 23 A. Well, the percentage is the same in both cases. 24 same in both cases. Page 275 Page 275 Q. It went from 34% to 34.4%; is that right? A. That's correct. Q. For women with ovarian cancer, before the lawsuits were filed, 36.5% of them said they recalled using baby powder; is that right? A. That's right. Q. But after the lawsuits were filed, the percent of women with ovarian cancer who said they used baby powder went up to filed, the filed, the said significant increase A. I don't know, but it seems like it might be. Q. So after the lawsuits were filed, the percent of women with ovarian cancer who said they used baby powder jumped significantly; is that right? A. I don't know, but it seems like it might be. Q. So after the lawsuits were filed, the percent of women with ovarian cancer who said they used baby powder jumped significantly; is that right? A. I don't know, but it seems like it might be. Q. So after the lawsuits were filed, the percent of women with ovarian cancer who said they used baby powder jumped significantly; is that right? A. The authors did that for me by including the period of the interview as a cofactor in the logistic regression models. It accounts for this difference that you see on the table. Q. You do agree there was no statistically significant finding of an odds ratio prior to 2014, the data collected | | · · | | |
| 22 powder, is that right? 23 A. Well, the percentage is the same in both cases. Page 275 Page 275 Q. It went from 34% to 34.4%; is that right? A. Probably not. Q. If the study had been terminated as of 2014, prior to the lawsuits being filed, then the results of the study would have been that genital talc use was not statistically significantly associated with right? A. That's right. Q. But after the lawsuits were filed, 36.5% of them said they recalled using baby powder; is that right? A. That's right. Q. But after the lawsuits were filed, the percent of women with ovarian cancer who said they used baby powder went up to 51.5%; is that right? A. That is also correct. Q. If the study had been terminated as of 2014, prior to the lawsuits being filed, then the results of the study would have been that genital talc use was not statistically significantly associated with an increased risk of ovarian cancer; is that right? A. That's right. Q. But after the lawsuits were fled, 36.5% of them said they used baby powder went up to 51.5%; is that right? A. That is also correct. Q. Is that a significant increase from 36.5%? 15 Weighing the Schildkraut study? 16 A. I don't know, but it seems like it might be. 17 it might be. 18 Q. So after the lawsuits were fled, the percent of women with ovarian cancer who said they used baby powder jumped significantly; is that right? MS. O'DELL: Object to the 22 Significantly; is that right? MS. O'DELL: Object to the 22 Significantly; is that right? MS. O'DELL: Object to the 22 Statistically significant finding of an odds ratio prior to 2014, the data collected | | | | · • |
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| 23 form. 23 ratio prior to 2014, the data collected | | | | - |
| | | | l | |
| 24 A. Well, that's that is true. | | | l | |
| | ∠4 | A. well, that's that is true. | 44 | unough mat time, is that right? |

| 1 | Daga 279 | | Daga 200 |
|--|---|--|---|
| Ι Ι | Page 278 | _ | Page 280 |
| _ | A. In the in the data collected | 1 | factors or latency periods for a number of |
| 2 | on those let me see here. In the data | 2 | different types of cancers and tumors based |
| 3 | collected on those 351 cases and | 3 | on the incidence data and what is known about |
| 4 | corresponding controls, there was not a | 4 | the natural progression of those tumors over |
| 5 | significant odds ratio. | 5 | time. |
| 6 | Q. I want to go back and ask you a | 6 | I can't recall at the moment |
| 7 | few questions about some of the things I had | 7 | exactly where I determined the latency period for ovarian cancer to be between 20 and |
| 8 | talked to you before about. | 8 9 | |
| 9 10 | In terms of this chatter about | 10 | 40 years. |
| 11 | IARC, who has told you this? A. There are a number of | 11 | We do have a paper that's referenced here that discusses the |
| 12 | environmental websites and that also | 12 | determination of latency periods and includes |
| 13 | | 13 | ovarian cancer as one of the tumors that it |
| 14 | operate on social media that discuss this kind of thing. | 14 | determines a latency period for, and it uses |
| 15 | Q. So there's social media | 15 | a mathematical formula with various factors |
| 16 | websites that have talked about at least the | 16 | plugged into it to calculate that. |
| 17 | possibility of IARC revisiting the issue? | 17 | In that particular article, the |
| 18 | A. Yes, among many other things. | 18 | latency factor period was very long. I |
| 19 | Q. I asked you earlier about | 19 | think it was 44 years on the average. |
| 20 | cornstarch, and you believe that cornstarch | 20 | Q. You do not have personal |
| 21 | is rapidly cleared from the body, including | 21 | expertise in terms of the latency period for |
| 22 | the ovaries; is that right? | 22 | ovarian cancer, correct? |
| 23 | MS. O'DELL: Object to the | 23 | A. I have I've calculated |
| 24 | form. | 24 | latency periods as an exercise when I was in |
| | Tolin. | | facility periods as an excluse when I was in |
| | Page 279 | | Page 281 |
| 1 | A. Yes. | 1 | graduate school, but that's not something I |
| 2 | BY MR. ZELLERS: | 2 | normally do. I usually defer to the those |
| 3 | Q. What is the mechanism by which | | |
| _ | | 3 | who have published latency periods for that |
| 4 | you believe that cornstarch is rapidly | 3 4 | information. |
| 4 5 | cleared from the body, including the ovaries? | | information. Q. You are recalling that at least |
| 4 5 6 | cleared from the body, including the ovaries? A. It's primarily composed of | 4 5 6 | information. Q. You are recalling that at least in some of the study or studies that you've |
| 4 5 6 7 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of | 4 5 6 7 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian |
| 4 5 6 7 8 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and | 4 5 6 7 8 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? |
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| 4 5 6 7 8 9 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and | 4 5 6 7 8 9 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which |
| 4 5 6 7 8 9 10 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and become part of the general milieu of the | 4 5 6 7 8 9 10 11 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which study or studies you're relying on for that |
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| 4 5 6 7 8 9 10 11 12 13 14 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and become part of the general milieu of the body. Q. Does cornstarch create inflammation in the body? | 4 5 6 7 8 9 10 11 12 13 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which study or studies you're relying on for that information? A. I'd have to go through my list to find it. Do you mind if I take a moment |
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| 4 5 6 7 8 9 10 11 12 13 14 15 16 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and become part of the general milieu of the body. Q. Does cornstarch create inflammation in the body? A. Yes. Q. You testified that the latency | 4 5 6 7 8 9 10 11 12 13 14 15 16 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which study or studies you're relying on for that information? A. I'd have to go through my list to find it. Do you mind if I take a moment to do that? Q. Define "a moment." |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and become part of the general milieu of the body. Q. Does cornstarch create inflammation in the body? A. Yes. Q. You testified that the latency period for ovarian cancer is between 20 and | 4 5 6 7 8 9 10 11 12 13 14 15 16 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which study or studies you're relying on for that information? A. I'd have to go through my list to find it. Do you mind if I take a moment to do that? Q. Define "a moment." A. Well, however long it takes me |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and become part of the general milieu of the body. Q. Does cornstarch create inflammation in the body? A. Yes. Q. You testified that the latency period for ovarian cancer is between 20 and 40 years; is that right? | 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which study or studies you're relying on for that information? A. I'd have to go through my list to find it. Do you mind if I take a moment to do that? Q. Define "a moment." A. Well, however long it takes me to find it in that list, but |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and become part of the general milieu of the body. Q. Does cornstarch create inflammation in the body? A. Yes. Q. You testified that the latency period for ovarian cancer is between 20 and 40 years; is that right? A. Roughly, yes. | 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which study or studies you're relying on for that information? A. I'd have to go through my list to find it. Do you mind if I take a moment to do that? Q. Define "a moment." A. Well, however long it takes me to find it in that list, but Q. Let me see if I can shortcut |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and become part of the general milieu of the body. Q. Does cornstarch create inflammation in the body? A. Yes. Q. You testified that the latency period for ovarian cancer is between 20 and 40 years; is that right? A. Roughly, yes. Q. What is the basis for you | 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which study or studies you're relying on for that information? A. I'd have to go through my list to find it. Do you mind if I take a moment to do that? Q. Define "a moment." A. Well, however long it takes me to find it in that list, but Q. Let me see if I can shortcut it. |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and become part of the general milieu of the body. Q. Does cornstarch create inflammation in the body? A. Yes. Q. You testified that the latency period for ovarian cancer is between 20 and 40 years; is that right? A. Roughly, yes. Q. What is the basis for you saying that? | 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which study or studies you're relying on for that information? A. I'd have to go through my list to find it. Do you mind if I take a moment to do that? Q. Define "a moment." A. Well, however long it takes me to find it in that list, but Q. Let me see if I can shortcut it. Do you believe that the latency |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and become part of the general milieu of the body. Q. Does cornstarch create inflammation in the body? A. Yes. Q. You testified that the latency period for ovarian cancer is between 20 and 40 years; is that right? A. Roughly, yes. Q. What is the basis for you saying that? A. There are a number of factors | 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which study or studies you're relying on for that information? A. I'd have to go through my list to find it. Do you mind if I take a moment to do that? Q. Define "a moment." A. Well, however long it takes me to find it in that list, but Q. Let me see if I can shortcut it. Do you believe that the latency period for ovarian cancer is something you've |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | cleared from the body, including the ovaries? A. It's primarily composed of carbohydrate with a small amount of structural material, probably cellulose, and those materials are broken down in body fluids fairly rapidly and dissolved and become part of the general milieu of the body. Q. Does cornstarch create inflammation in the body? A. Yes. Q. You testified that the latency period for ovarian cancer is between 20 and 40 years; is that right? A. Roughly, yes. Q. What is the basis for you saying that? | 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | information. Q. You are recalling that at least in some of the study or studies that you've reviewed that the latency period for ovarian cancer is 20 to 40 years, correct? A. Yes. Q. Are you able to tell us which study or studies you're relying on for that information? A. I'd have to go through my list to find it. Do you mind if I take a moment to do that? Q. Define "a moment." A. Well, however long it takes me to find it in that list, but Q. Let me see if I can shortcut it. Do you believe that the latency |

| | Alch I. Chip Ca | | , M.D., FII.D. |
|----|---|----|---|
| | Page 282 | | Page 284 |
| 1 | Q. It would be where would it | 1 | MS. BOCKUS: If you want to |
| 2 | be? | 2 | pass me your microphone, I think I can |
| 3 | MS. O'DELL: If you need a | 3 | stay here. I'm not going to pass him |
| 4 | moment to review either your report or | 4 | that many exhibits. |
| 5 | your materials list, you know | 5 | MR. ZELLERS: I'm happy to help |
| 6 | THE WITNESS: I don't believe | 6 | you. |
| 7 | that particular piece of information | 7 | MS. BOCKUS: Thank you. |
| 8 | is in my report, but it's I think I | 8 | EXAMINATION |
| 9 | could come up with it fairly quickly | 9 | BY MS. BOCKUS: |
| 10 | if I | 10 | Q. Dr. Carson, my name is Jane |
| 11 | BY MR. ZELLERS: | 11 | Bockus. I'm not certain I actually |
| 12 | Q. All right. Go ahead. Find for | 12 | introduced myself to you this morning, but I |
| 13 | us the study or studies you're relying on for | 13 | represent Imerys in this litigation. |
| 14 | the latency period of ovarian cancer. | 14 | Do you understand that? |
| 15 | • • | 15 | A. I do. |
| | A. Okay. If I'm lucky, I may hit on it here. | 16 | |
| 16 | | 1 | Q. Before Mr. Abney contacted you |
| 17 | (Document review.) | 17 | about preparing a report that would explain |
| 18 | A. It's the Diana Nadler and Igor | 18 | the relationship between regular perineal use |
| 19 | Zurbenko paper Estimating Cancer Latency | 19 | of talc based on personal hygiene products |
| 20 | Times Using the Weibull Model. | 20 | and subsequent development of ovarian cancer, |
| 21 | BY MR. ZELLERS: | 21 | is that anything that you had researched |
| 22 | Q. You're looking at Exhibit 4, | 22 | before that date? |
| 23 | your literature list; is that right? | 23 | MS. O'DELL: Object to the |
| 24 | A. Yes. | 24 | form. |
| | Page 283 | | Page 285 |
| 1 | Q. What page of Exhibit 4 are you | 1 | A. I don't think Mr. Abney |
| 2 | looking at? | 2 | well, he may have been that detailed in our |
| 3 | A. Page 17 in the Ns. | 3 | discussion. But in response to your |
| 4 | Q. Are you finished? | 4 | question, that's not a specific question I |
| 5 | A. There may be others in the | 5 | had researched in the past, although I had |
| 6 | list, but you asked me to cite one. You want | 6 | researched related kinds of issues. |
| 7 | me to continue looking? | 7 | BY MS. BOCKUS: |
| 8 | Q. No, I that is sufficient for | 8 | Q. So would it be fair to say that |
| 9 | my purposes. Thank you. | 9 | the opinions contained in your report are all |
| 10 | Dr. Carson, there have been | 10 | opinions that you have come to as a result of |
| 11 | some studies where talc particles had been | 11 | doing the research at the request of |
| 12 | observed or reported in the ovaries of women | 12 | Mr. Abney and others in the plaintiffs' |
| 13 | who have had perineal talc use; is that | 13 | lawyer group? |
| 14 | right? | 14 | MS. O'DELL: Object to the |
| 15 | A. Yes. | 15 | form. |
| 16 | Q. Heller was one of the studies | 16 | A. Yes. |
| 17 | that we talked about, correct? | 17 | BY MS. BOCKUS: |
| 18 | A. Correct. | 18 | Q. Okay. And I'm going to |
| 19 | Q. In those studies, there has not | 19 | apologize right now. I'll be jumping around |
| 20 | been inflammation noted; is that right? | 20 | because most of my outline has already been |
| 21 | A. No, there that's not been an | 21 | covered, so let me just get you to look at |
| 22 | important finding. | 22 | your report, if I could, and I'm going to ask |
| 23 | MR. ZELLERS: I have no further | 23 | you some questions about it. |
| 24 | questions for you. | 24 | Turn to page 4, and |
| | 1 101 Joun | 1 | ran to page i, and |
| | | | |

| | | I | |
|----------------------------------|--|----------------------|---|
| | Page 286 | | Page 288 |
| 1 | paragraph (b), the first sentence reads: | 1 | A. No. |
| 2 | Numerous studies have examined the | 2 | Q. And then going on, you talk |
| 3 | cancer-causing characteristics of talc. | 3 | about the fact that there in that same |
| 4 | Do you see that? | 4 | paragraph, if you go down, you talk about |
| 5 | A. Yes. | 5 | IARC and the fact that IARC concluded that |
| 6 | Q. And you identified Wilde as | 6 | talcum powder use by women for feminine |
| 7 | your source for that statement, correct? | 7 | hygiene is a possible human carcinogen; |
| 8 | A. That is correct. | 8 | that's not a classification of tale as a |
| 9 | Q. Isn't it correct that the Wild | 9 | carcinogen, correct? |
| 10 | study actually exonerated talc as having | 10 | MS. O'DELL: Object to the |
| 11 | cancer-causing characteristics? | 11 | form. |
| 12 | A. That was a conclusion of the | 12 | A. It is within the spectrum of |
| 13 | author, but the reason it's cited there is | 13 | carcinogens. |
| 14 | because that's an example of the | 14 | BY MS. BOCKUS: |
| 15 | investigation of the relationship. | 15 | Q. It's possible. |
| 16 | Q. Okay. But in that study, | 16 | A. That's correct. |
| 17 | they he concluded that talc alone did not | 17 | Q. And then you say that |
| 18 | cause cancer, correct? | 18 | meaning that there is insufficient evidence |
| 19 | A. As I recall, that was the | 19 | • |
| 20 | general conclusion, yes. | 20 | of carcinogenesis in humans, but strong evidence in other mammalian species. |
| 21 | | 21 | * |
| 22 | Q. Okay. Then in the next couple | 22 | Can you tell me where in IARC |
| | of sentences, you say that talc has caused | 1 | it says that there is strong evidence that |
| 23 | cancer when implanted in various tissues and | 23 24 | talc causes ovarian cancer in other mammalian |
| 24 | under the skin in laboratory animals. It | 24 | species? |
| | Page 287 | | Page 289 |
| 1 | causes inflammation and fibrotic reaction, | 1 | A. I think the issue is not |
| 2 | including the chemotaxis of inflammatory | 2 | specifically ovarian cancer; the issue is |
| 3 | immune cells and accelerated growth and | 3 | cancer. And that's the point of view of |
| 4 | division of cells in the involved tissue. | 4 | IARC, and that's what's alluded to here. |
| 5 | And you cite Okada 2007 for | 5 | Q. So this is the one exhibit I'm |
| 6 | that proposition; is that correct? | 6 | going to hand you, if I can get that one |
| 7 | A. That's correct. | 7 | marked by my assistant. |
| 8 | Q. But Okada wasn't even looking | 8 | MR. ZELLERS: Exhibit 25. |
| 9 | at tale, was it? | 9 | (Carson Deposition Exhibit 25 |
| 10 | A. Let me see here. Okada was | 10 | marked.) |
| 11 | looking at inflammation as as the endpoint | 11 | MS. O'DELL: This is a page out |
| 12 | in the various components of inflammation | 12 | of the monograph? |
| 13 | which I talked about here, the chemotaxis of | 13 | MS. BOCKUS: Yes. |
| 14 | inflammatory immune cells, accelerated growth | 14 | MS. O'DELL: Are you going to |
| 15 | division in the involved tissues. | 15 | identify it? |
| | Q. But what you say is that talc | 16 | MS. BOCKUS: And he can look it |
| 16 | The state of the s | 17 | up in his whole monograph. I just |
| 16 17 | causes When you say "it " you're referring | | pulled the page for simplicity. |
| 17 | causes. When you say "it," you're referring | 1 18 | |
| 17 18 | to tale, correct? It causes inflammation and | 18 19 | |
| 17 18 19 | to talc, correct? It causes inflammation and fibrotic reaction; isn't that what you're | 19 | MS. O'DELL: So feel free to do |
| 17 18 19 20 | to talc, correct? It causes inflammation and fibrotic reaction; isn't that what you're saying in this sentence? | 19 20 | MS. O'DELL: So feel free to do that, Doctor. |
| 17 18 19 20 21 | to talc, correct? It causes inflammation and fibrotic reaction; isn't that what you're saying in this sentence? A. It is talc, yes. | 19 20 21 | MS. O'DELL: So feel free to do that, Doctor. MS. BOCKUS: Yes, page 412. |
| 17 18 19 20 21 22 | to talc, correct? It causes inflammation and fibrotic reaction; isn't that what you're saying in this sentence? A. It is talc, yes. Q. Okay. And yet, Okada, the | 19 20 21 22 | MS. O'DELL: So feel free to do that, Doctor. MS. BOCKUS: Yes, page 412. BY MS. BOCKUS: |
| 17 18 19 20 21 | to talc, correct? It causes inflammation and fibrotic reaction; isn't that what you're saying in this sentence? A. It is talc, yes. | 19 20 21 | MS. O'DELL: So feel free to do that, Doctor. MS. BOCKUS: Yes, page 412. |

| | Dage 200 | | Dage 202 |
|----------|--|----|---|
| | Page 290 | | Page 292 |
| 1 | talks about the data the evidence that | 1 | black, titanium dioxide and talc. |
| 2 | they have and the evidence that they | 2 | So regarding tale, the overall |
| 3 | reviewed. | 3 | point of view here is whether or not it |
| 4 | Do you see that? | 4 | produces cancer, not just ovarian cancer, not |
| 5 | A. That's correct. | 5 | just lung cancer, but any cancer. |
| 6 | Q. And what they actually state | 6 | And so I'm not sure that that |
| 7 | with regard to experimental evidence is that | 7 | responds to your question. |
| 8 | there is limited evidence in experimental | 8 | BY MS. BOCKUS: |
| 9 | animals for the carcinogenicity of talc not | 9 | Q. No. My question was: You |
| 10 | containing asbestos or asbestiform fibers. | 10 | state in your report that IARC found strong |
| 11 | Correct? | 11 | evidence in animals, and I want to know where |
| 12 | MS. O'DELL: Object to the | 12 | you believe that statement occurs in the IARC |
| 13 | form. | 13 | monograph, or do you know? |
| 14 | BY MS. BOCKUS: | 14 | MS. O'DELL: And if you need a |
| 15 | Q. Did I read it incorrectly? | 15 | minute to look, feel free to do that. |
| 16 | A. No, I just lost you for a | 16 | A. Well, I can say that it might |
| 17 | moment. | 17 | take me a while to look for it, but I can say |
| 18 | Q. It's one sentence. Go ahead | 18 | that that's the basic definition of Group 2B, |
| 19 | and take your time and read it. | 19 | is limited evidence in humans and compelling |
| 20 | A. Yes, I agree with that. They | 20 | evidence in animals or other |
| 21 | found that inhaled tale, which does not | 21 | BY MS. BOCKUS: |
| 22 | contain asbestos or asbestiform fibers, is | 22 | Q. Tell me where you're looking at |
| 23 | Group 3. | 23 | that definition of 2B. |
| 23 24 | • | 24 | A. Let me see here. |
| 24 | Q. That wasn't my question. I'm | 24 | A. Let me see here. |
| | Page 291 | | Page 293 |
| 1 | talking about experimental animals because | 1 | Q. We earlier marked the |
| 2 | that's what you state in your report that | 2 | Exhibit 21, I think. |
| 3 | IARC found strong evidence in animals, and | 3 | A. Well, I have this other |
| 4 | yet the part of IARC that I know of where | 4 | exhibit, which is the preamble from another |
| 5 | they're addressing the animal data with | 5 | situation; it's Exhibit P-346, and |
| 6 | regard to talc is what I handed you in | 6 | Q. Well, let me just ask a |
| 7 | Section 6.2, and it states there's limited | 7 | different question, rather than looking at |
| 8 | evidence, correct? | 8 | the preamble. |
| 9 | MS. O'DELL: Objection. | 9 | A. All right. |
| 10 | A. It states that there's limited | 10 | Q. Because that's kind of |
| 11 | evidence I need to find this section in | 11 | overarching. |
| 12 | the monograph. Just bear with me for a | 12 | A. It is. |
| 13 | moment. It's page 412? | 13 | Q. To know what IARC found with |
| 14 | (Document review.) | 14 | regard to talc and the evidence in animal |
| 15 | A. Okay. I seem to be missing | 15 | models, wouldn't it be more appropriate to |
| 16 | that part of the monograph. | 16 | look at what they actually said about talc in |
| 17 | MS. O'DELL: Do you have the 93 | 17 | the animal studies? |
| 18 | monograph? | 18 | A. Yes. |
| 19 | THE WITNESS: Where's the | 19 | |
| 20 | this is 100C, and this is 93. Okay. | 20 | MS. O'DELL: Objection, form. |
| | | 1 | A. I would agree that that's the |
| 21 | Here it is. All right. Okay. | 21 | case. |
| 22 | A. Okay. The entire monograph is | 22 | BY MS. BOCKUS: |
| 23 | designed to evaluate carcinogenic risk, and | 23 | Q. And to your knowledge, nowhere |
| 24 | it looks at three different species, carbon | 24 | did they find strong evidence of |
| | | 1 | |

| | Page 294 | | Page 296 |
|----------|--|----------|---|
| 1 | cancer-causing potential of talc in animal | 1 | misstates the evidence. |
| 2 | studies, correct? | 2 | A. I believe that was their |
| 3 | MS. O'DELL: Objection to form. | 3 | assumption. |
| 4 | A. Well well, it says on that | 4 | BY MS. BOCKUS: |
| 5 | page there's limited evidence in experimental | 5 | Q. Okay. The studies that you |
| 6 | animals, so I'll agree that at least in this | 6 | reference in support of the notion that |
| 7 | location it does not say strong evidence. | 7 | asbestos in that may or may not exist in |
| 8 | BY MS. BOCKUS: | 8 | body powder contributes to cause ovarian |
| 9 | Q. And without going through the | 9 | cancer, none of the studies that you cite to |
| 10 | entire monograph, you don't know where that | 10 | have referenced an application of a product |
| 11 | language came from, is that fair, that you | 11 | to the perineum of the women and girls study, |
| 12 | used in your report? | 12 | correct? |
| 13 | MS. O'DELL: Object. Excuse | 13 | MS. O'DELL: Object to the |
| 14 | me. Object to the form. I think he | 14 | form. |
| 15 | was pointing directing you to the | 15 | THE WITNESS: I have a I |
| 16 | preamble and you withdrew your | 16 | apologize greatly, but I lost the |
| 17 | question, but | 17 | track. Could you repeat that |
| 18 | MS. BOCKUS: Well, let me just | 18 | question. |
| 19 | ask a qualifying question. | 19 | MS. BOCKUS: That's totally |
| 20 | BY MS. BOCKUS: | 20 | understandable because it was a little |
| | | 21 | bit convoluted. |
| 21 22 | | 22 | |
| 23 | address their findings with regards to talc? | | MS. O'DELL: Do you mind if we |
| | A. No, the preamble addresses the | 23 | get the realtime running again? We're |
| 24 | methodology that's used by the IARC agency in | 24 | just off track here. |
| | Page 295 | | Page 297 |
| 1 | addressing all the substances that they | 1 | MS. BOCKUS: That's okay. |
| 2 | evaluate. | 2 | BY MS. BOCKUS: |
| 3 | Q. Okay. | 3 | Q. I'm looking on page 5. Do you |
| 4 | A. And that's usually where I pull | 4 | see on page 5 of your report, sir, |
| 5 | things like that. | 5 | paragraph (c)? |
| 6 | MS. O'DELL: Are you finished, | 6 | A. Yes. |
| 7 | Doctor? | 7 | Q. And there you cite one, two, |
| 8 | THE WITNESS: Unless I'm going | 8 | three, four, five, six, seven, eight, nine, |
| 9 | to continue to search for this. | 9 | 10, 11, 12 studies, correct? |
| 10 | BY MS. BOCKUS: | 10 | A. Yes. |
| 11 | Q. I don't need for you to look in | 11 | Q. Do you speak Italian? |
| 12 | the preamble, because I'm really only | 12 | A. I can read it pretty well. |
| 13 | interested in their findings as to tale, not | 13 | Q. Is that what you did for the |
| 14 | their overarching methodology, that sort of | 14 | Bertolotti study? |
| 15 | thing. | 15 | A. The Bertolotti study. Yes, I |
| 16 | A. Okay. But it's important to | 16 | read most of it. I may have kibitzed with |
| 17 | point out that this particular monograph is | 17 | some of my colleagues about the meaning of a |
| 18 | an evaluation of the carcinogenicity of talc | 18 | few words. |
| 19 | that does not contain asbestos or asbestiform | 19 | Q. At any rate, all of these |
| 20 | fibers, so | 20 | studies have to do with heavy occupational |
| 21 | Q. Correct. Which was, from their | 21 | exposure to asbestos, correct? |
| 22 | view, the talc that was included in all of | 22 | MS. O'DELL: Object to the |
| | | | · · · · · · · · · · · · · · · · · · · |
| 23 | the studies that they reviewed, correct? | 23 | form. |
| 23 24 | the studies that they reviewed, correct? MS. O'DELL: Objection, | 23 24 | form. A. Yes. |

| | Page 298 | | Page 300 |
|--|---|--|---|
| 1 | BY MS. BOCKUS: | 1 | microenvironment, and based on what we know |
| 2 | Q. And you don't have any | 2 | about the mechanism of action of talc as well |
| 3 | information how the dose of asbestos to which | 3 | and even asbestos, they're all similar, and |
| 4 | these women were exposed during their heavy | 4 | for that reason would be expected to be |
| 5 | occupational exposure compares to any | 5 | additive. |
| 6 | exposure to asbestos from the use of body | 6 | Q. But the study hasn't been done |
| 7 | powder, correct? | 7 | even in a petri dish, has it? |
| 8 | A. Well, I think these were not | 8 | MS. O'DELL: Object to the |
| 9 | all occupational exposures, but I do not have | 9 | form. |
| 10 | information regarding things like the route | 10 | A. I don't know if there's |
| 11 | of exposure, no. | 11 | something in progress or not, but that's the |
| 12 | Q. Do you have any information | 12 | kind of study that is currently being looked |
| 13 | regarding the dose? | 13 | at. Combined exposures is the sort of the |
| 14 | A. No, I don't. | 14 | hallmark of research these days in |
| 15 | Q. Do you have any information | 15 | toxicology. |
| 16 | that would compare the dose of asbestos to | 16 | BY MS. BOCKUS: |
| 17 | which the women in these studies were | 17 | Q. Do you know of anyone who's |
| 18 | exposed | 18 | looking at that question? |
| 19 | A. Well, in some of the studies | 19 | A. I don't. |
| 20 | Q. Wait, I haven't finished my | 20 | Q. Okay. Have any of the heavy |
| 21 | question. | 21 | metals that you have identified been |
| 22 | A. Sorry. | 22 | identified as carcinogenic to the ovary by |
| 23 | Q to any alleged dose of | 23 | IARC? |
| 24 | asbestos in body powder? | 24 | A. No. |
| | | | |
| | Page 299 | | Page 301 |
| 1 | | 1 | Page 301 |
| 1 2 | Can you make any comparison | 1 2 | Q. I want you to turn to page 7 |
| 2 | Can you make any comparison whatsoever to the amount of asbestos to which | 2 | Q. I want you to turn to page 7 now, if you would, please, on other evidence. |
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| | Page 302 | | Page 304 |
| 1 | application to the perineum is equivalent to | 1 | those studies that you list here done in |
| 2 | that. | 2 | women who were standing up? |
| 3 | Q. Do you have an opinion as to | 3 | A. The studies that I list in |
| 4 | what percentage of the talcum powder applied | 4 | other evidence? |
| 5 | in a daily dusting to the perineum makes its | 5 | Q. Yes. |
| 6 | way to the vagina? | 6 | A. I think not. |
| 7 | A. No, I don't know. | 7 | Q. In fact, were any of them done |
| 8 | Q. Do you have an opinion as to | 8 | in women who were inclined with their head |
| 9 | what percentage of the talc that, in your | 9 | elevated over their hips? |
| 10 | opinion, would make its way to the vagina | 10 | A. No. |
| 11 | would actually make its way to the cervix? | 11 | Q. So my question is: Where do |
| 12 | A. I don't know that either. | 12 | you get the term "startling regularity" with |
| 13 | O. And out of the talc that makes | 13 | regard to the transport of talc from outside |
| 14 | its way to the cervix, what percentage makes | 14 | a woman's body to the upper reproductive |
| 15 | it past the cervix into the uterus? | 15 | tract? |
| 16 | A. That, I don't know either. | 16 | MS. O'DELL: Object to the |
| 17 | Q. Do you have any reason to | 17 | form. |
| 18 | believe that talc would migrate with more | 18 | A. The propensity of evidence of |
| 19 | frequency or rapidity than sperm? | 19 | rapid transport of particulate material |
| 20 | MS. O'DELL: Objection to form. | 20 | regarding regardless of its composition. |
| 21 | A. No, I don't have reason to | 21 | BY MS. BOCKUS: |
| 22 | believe that would be the case. | 22 | Q. Particulate material inserted |
| 23 | BY MS. BOCKUS: | 23 | well into a woman's vagina whose hips are |
| 24 | Q. Would you agree, in fact, that | 24 | above her head, correct? |
| 21 | Q. Would you agree, in fact, that | | above her head, correct: |
| | Page 303 | | Page 305 |
| 1 | it is unlikely that tale, an inert particle, | 1 | MS. O'DELL: Objection to form. |
| 2 | would travel as quickly or in the same | 2 | A. Well, we have other studies |
| 3 | percentages as sperm through the reproductive | 3 | too. We have the powdered glove examination |
| 4 | tract? | 4 | studies, things of that nature, that are a |
| 5 | MS. O'DELL: Object to the | 5 | little bit different. |
| 6 | form. | 6 | BY MS. BOCKUS: |
| 7 | A. I think the transport time is | 7 | Q. And you believe they support |
| 8 | roughly the same for any particulate matter, | 8 | your conclusion that tale is transported from |
| 9 | including sperm. | 9 | the perineum to the upper reproductive tract |
| 10 | BY MS. BOCKUS: | 10 | with startling regularity? |
| 11 | Q. Do you have any studies to | 11 | A. I think that's a valid |
| 12 | support that opinion? | 12 | conclusion supported by the evidence, yes. |
| 13 | A. Well, we know we know the | 13 | Q. I'm turning to page 8 now, and |
| 14 | we know the velocity of motile sperm; it's | 14 | the number that you have here and you've |
| 15 | very slow. And we have studies that have | 15 | repeated it a couple of times today about |
| 16 | shown the progression of particles through | 16 | your opinion that the elimination of talc as |
| 17 | the fallopian tubes at at least that fast a | 17 | a risk could result in over 3,000 lives saved |
| 18 | rate, possibly faster. | 18 | in the U.S. each year. |
| 19 | And so the motility of sperm is | 19 | How did you come to that |
| 20 | slower than the rate at which it passes | 20 | conclusion? |
| 21 | through the female reproductive system, so | 21 | A. Well, I'm referring to talcum |
| 22 | there are obviously other mechanisms at play | 22 | powder here |
| 23 | | 23 | • |
| 24 | * | 24 | The state of the s |
| | other than sperm motility. Q. To your knowledge, were any of | 1 | Q. Okay. Sure.A which is the complete |

Page 306 Page 308 1 product. 1 There may not have been use of 2 2 I came to that conclusion based talcum powder in all those women, that's 3 on the number of new cases of ovarian cancer 3 correct. 4 that are diagnosed in the United States each 4 O. Do you have any notion as to 5 what percent of those women may have used 5 year and the number of ovarian cancer deaths 6 that occur each year. 6 talcum powder? 7 And essentially, of 21,000 or 7 A. Based on these various studies, 8 8 so cases of -- new cases of ovarian cancer, it seems to vary between 30 and 60%. It's 9 there are corresponding 14,000 or more deaths 9 more so in the U.S., Australia and the U.K. 10 each year, so that's a two-thirds fatality 10 Q. Do you have an opinion as to 11 rate if you look over time. 11 how regularly a women needs to use talcum The -- at 30% increase in the 12 12 powder before her risk of ovarian cancer is 13 13 increased by 30%? risk of -- or a 30% increase in the risk of 14 cancer applied in reverse, that is reducing 14 A. Well, based on the epidemiology those -- that 30% increased risk from the use 15 15 studies, that risk occurs in the population 16 of perineal application of talcum powder 16 in general from ever use as opposed to never could result in the prevention of as many as 17 17 use, and so it would depend on the individual 18 3,000 lives, depending on the prevalence of 18 19 19 Each person has an individual use. 20 Q. Would that calculation require 20 susceptibility and individual characteristics 21 that 100% of the women in the U.S. be using 21 and would probably have an individual use 22 talcum powder on a daily basis? 22 pattern. So I couldn't say for any 23 23 individual woman. A. It would require a hundred 24 percent of the women in the U.S. to stop 24 Q. And that's not what I'm asking Page 307 Page 309 using talcum powder on a daily basis. 1 for. I'm really asking for in general, 1 2 O. That wasn't my question. 2 because that's what epidemiology is, correct? It's not talking about an individual woman, 3 In order to attribute --3 4 A. Well, my answer to your 4 right? 5 5 question then is no. A. That's correct, it's describing б O. In order to attribute 30% of 6 it in the population. 7 all ovarian cancer deaths to the use of 7 Q. So in the population, in the 8 talcum powder -- let me back up. 8 studies that you've reviewed, what is the 9 9 The data that you have that minimum number of days per month, or however 10 you've cited is talking about the percentage 10 you want to describe it, that a woman would 11 of women -- the percentage of women who use 11 need to use talcum powder before she would be 12 talcum powder who are diagnosed with ovarian 12 included in the group that you believe have a 13 30% increased risk of ovarian cancer? cancer, correct? 13 14 MS. O'DELL: Object to the 14 MS. O'DELL: Object to the 15 15 form. form. 16 A. It is the total number of new 16 A. The only qualifier that I've 17 diagnoses per year. 17 been able to come up with and that I've used 18 BY MS. BOCKUS: 18 in this report is the regular use of talcum 19 Q. Okay. 19 powder. 20 A. I think last year was 20 BY MS. BOCKUS: 21 22,000-something. 21 O. Okay. 22 O. But that number, 22,000, 100% 2.2 And that is going to vary over 23 of those women did not use talcum powder, 23 a broad range. It would be periodically 24 correct? 24 daily to several times a week would be

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| | Page 310 | | Page 312 |
| 1 | regular use. | 1 | no threshold of exposure for risk; that we |
| 2 | Q. And over how many years must a | 2 | are we are right to use a zero threshold |
| 3 | woman use talcum powder on a regular basis | 3 | approach until we know more about the |
| 4 | before her risk of ovarian cancer is | 4 | possibility of a threshold below which |
| 5 | increased to 30% | 5 | exposure would be safe. At the current time |
| 6 | MS. O'DELL: Object to the | 6 | we don't have that information. |
| 7 | form. | 7 | Q. Do you believe that there |
| 8 | BY MS. BOCKUS: | 8 | probably is a threshold below which use is |
| 9 | Q in your opinion? | 9 | safe? |
| 10 | MS. BOCKUS: Sorry. | 10 | A. In the carcinogenic process, |
| 11 | A. Some of the studies have | 11 | which we haven't really talked about in this |
| 12 | focused on usage periods as short as one | 12 | session today, there is an insult to a cell |
| 13 | year, but most have studied longer periods of | 13 | which affects the genetic material, the DNA. |
| 14 | use and separated use into things like | 14 | And there are built-in repair mechanisms that |
| 15 | decades or accumulated total person-years | 15 | the cell has for fixing that problem that |
| 16 | based on reports of the women, multiplying | 16 | occurred, a mutation, for example. |
| 17 | frequency by time. | 17 | These kinds of insults are |
| 18 | So again, it would depend on | 18 | happening to cells all the time, not just |
| 19 | the individual, but the research reports | 19 | from carcinogens in our environment, but just |
| 20 | hover around five to ten years of regular | 20 | from natural occurrences, even endogenous |
| 21 | use, resulting in significant odds ratios. | 21 | biochemical reactions cause these problems. |
| 22 | BY MS. BOCKUS: | 22 | The question is: Is the repair |
| 23 | Q. As I understand it in | 23 | process sufficient to undo what's been done? |
| 24 | toxicology, one of the basic tenets is that | 24 | And an exposure to environmental carcinogens, |
| | tomeorogy, one of the busic teness is that | | |
| | | | |
| | Page 311 | | Page 313 |
| 1 | | 1 | |
| 1 2 | Page 311 it's the dose that makes the poison, correct? A. That's correct. | 1 2 | that repair process is often overwhelmed so |
| | it's the dose that makes the poison, correct? A. That's correct. | | that repair process is often overwhelmed so that it cannot catch up with the damage |
| 2 | it's the dose that makes the poison, correct? A. That's correct. Q. That water can kill you if you | 2 | that repair process is often overwhelmed so that it cannot catch up with the damage that's being created, and a tumor is born, |
| 2 3 | it's the dose that makes the poison, correct? A. That's correct. Q. That water can kill you if you drink too much of it, right? | 2 | that repair process is often overwhelmed so that it cannot catch up with the damage that's being created, and a tumor is born, basically. |
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| 2 3 4 5 | it's the dose that makes the poison, correct? A. That's correct. Q. That water can kill you if you drink too much of it, right? | 2 3 4 5 | that repair process is often overwhelmed so that it cannot catch up with the damage that's being created, and a tumor is born, basically. That is where the concept of |
| 2 3 4 5 6 | it's the dose that makes the poison, correct? A. That's correct. Q. That water can kill you if you drink too much of it, right? A. Theoretically. Q. In a short period of time. | 2 3 4 5 6 | that repair process is often overwhelmed so that it cannot catch up with the damage that's being created, and a tumor is born, basically. That is where the concept of threshold comes from. Have we overwhelmed |
| 2 3 4 5 6 7 | it's the dose that makes the poison, correct? A. That's correct. Q. That water can kill you if you drink too much of it, right? A. Theoretically. Q. In a short period of time. And so I'm trying to find out | 2 3 4 5 6 7 | that repair process is often overwhelmed so that it cannot catch up with the damage that's being created, and a tumor is born, basically. That is where the concept of threshold comes from. Have we overwhelmed the repair or not, and we don't have enough |
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| | | 1 | |
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| | Page 314 | | Page 316 |
| 1 | A. I think they actually did. | 1 | THE WITNESS: I'm sorry, it |
| 2 | BY MS. BOCKUS: | 2 | appears that I do need to get the |
| 3 | Q. That's your reading of them? | 3 | original paper here. There it is. |
| 4 | A. Yes. | 4 | Okay. Thank you. |
| 5 | Q. What Saed did is he placed talc | 5 | (Document review.) |
| 6 | on cultured ovarian cancer cells, correct? | 6 | BY MS. BOCKUS: |
| 7 | A. Yes. | 7 | Q. Can you answer the question: |
| 8 | Q. And that actually what he | 8 | Did Saed have any either positive or negative |
| 9 | recorded was an elevation in the CA-125? | 9 | controls that he used in his experiments? |
| 10 | A. That's one of the things he | 10 | MS. O'DELL: Object to the |
| 11 | did. He also measured he did a number of | 11 | form. |
| 12 | genetic studies. He did transcribed RNA. He | 12 | A. I think he did, but I'd like to |
| 13 | located individual SNPs, which are single | 13 | actually find it in here so I can give you |
| 14 | nucleotide polymorphisms, in the genetic | 14 | the specifics. |
| 15 | material. | 15 | Well, he used normal cells and |
| 16 | And he found that as a result | 16 | epithelial ovarian cancer cells, and one was |
| 17 | of that treatment, those mutations altered | 17 | the control for the other. He treated them |
| 18 | the effectiveness of antioxidant enzymes that | 18 | in the same way. |
| 19 | are part of the protection mechanism and | 19 | BY MS. BOCKUS: |
| 20 | shield the repair process of the cell from | 20 | O. Let me ask a different |
| 21 | further damage. | 21 | question. |
| 22 | Q. Let's go back to the CA-125. | 22 | What I'm asking is: Did he |
| 23 | MS. O'DELL: If you need to | 23 | use, say, glass beads to see if as a |
| 24 | pull the paper out, Doctor, just, if | 24 | control to the talc? Did he have anything |
| | pun me papar eus, 2 eeser, juss, rr | | control to the three Did no have any thing |
| | Page 315 | | Page 317 |
| 1 | you want to take a moment and do that. | 1 | that he was controlling the cells' reaction |
| 2 | I know you were searching for it while | 2 | to against the talc? |
| 3 | you were talking. | 3 | A. I don't believe so. |
| 4 | THE WITNESS: Yes, I think I | 4 | Q. That would be important in an |
| 5 | have it right here. | 5 | experiment of this nature, would you not |
| 6 | MS. BOCKUS: These are just | 6 | agree with that? |
| 7 | general questions that I'm going to | 7 | MS. O'DELL: Object to the |
| 8 | ask you. | 8 | form. |
| 9 | MS. O'DELL: You still may get | 9 | A. Well, he did utilize normal and |
| 10 | the paper out. | 10 | cancerous cells, which would theoretically |
| 11 | MS. BOCKUS: Do whatever you | 11 | act as a control in that experiment. |
| 12 | want to do. | 12 | BY MS. BOCKUS: |
| 13 | THE WITNESS: You can go ahead. | 13 | Q. That's not my question. I'm |
| 14 | I'm | 14 | really asking about another element that he |
| 15 | BY MS. BOCKUS: | 15 | is exposing the cells to, both the normal and |
| 16 | Q. What controls did Saed use? | 16 | the cancerous cells. |
| 17 | Did he use any controls? In other words, did | 17 | MS. O'DELL: Objection to form. |
| 18 | he place a known foreign object that was | 18 | BY MS. BOCKUS: |
| 19 | not that was known not to be a carcinogen | 19 | Q. To see if the reaction was just |
| 20 | on the cultured ovarian cells to see if there | 20 | a reaction to a foreign body versus talc |
| 21 | was a difference? | 21 | specifically. |
| 22 | MS. O'DELL: Can you just pause | 22 | Did he do that? |
| 23 | just for a minute, let the doctor pull | 23 | MS. O'DELL: Object to the |
| 24 | out the exhibit? | 24 | form. |
| | | | |

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| | Page 318 | | Page 320 |
| 1 | A. I don't believe that he | 1 | A. I don't specifically know. |
| 2 | provided a control exposure as part of this | 2 | BY MS. BOCKUS: |
| 3 | experiment. | 3 | Q. There's no way to know that, is |
| 4 | BY MS. BOCKUS: | 4 | there? |
| 5 | Q. And you would agree that there | 5 | A. No, there's not. |
| 6 | are many things that will increase a CA-125, | 6 | Q. Let me find my there we go. |
| 7 | correct? | 7 | The Saed paper that you were |
| 8 | MS. O'DELL: Object to the | 8 | looking at just a minute ago, it has |
| 9 | form. | 9 | something printed across it. What does that |
| 10 | A. Yes, it's an acute-phase | 10 | say? |
| 11 | reactant. | 11 | A. In blue here? |
| 12 | BY MS. BOCKUS: | 12 | Q. Uh-huh. |
| 13 | Q. Pregnancy can increase | 13 | A. "For Peer Review." |
| 14 | somebody's CA-125? | 14 | Q. Okay. So it hasn't yet been |
| 15 | A. That's correct. | 15 | peer reviewed; is that correct? |
| 16 | Q. And with regard to the SNPs, | 16 | MS. O'DELL: Object to the |
| 17 | that is not the same thing as a test showing | 17 | form. |
| 18 | mutation, correct? | 18 | A. It's been submitted. |
| 19 | MS. O'DELL: Object to the | 19 | BY MS. BOCKUS: |
| 20 | form. | 20 | Q. So does that mean it has not |
| 21 | BY MS. BOCKUS: | 21 | yet been peer reviewed? |
| 22 | Q. It's a surrogate. | 22 | MS. O'DELL: Object to the |
| 23 | A. Well, it's because there was | 23 | form. |
| 24 | transcribed RNA that was used to determine | 24 | A. I think it's been accepted for |
| | Dage 210 | | Daga 221 |
| 1 | Page 319 | | Page 321 |
| 1 | their presence, and the it's just part of | 1 | publication. |
| 2 | their procedure, but it identifies genetic | 2 | BY MS. BOCKUS: |
| 3 | alterations. And those genetic alterations | 3 | Q. But the copy you have says on |
| 4 5 | transformed into differential enzyme activities. | 4 5 | it "For Peer Review," correct? A. That's correct. |
| 6 | | 6 | |
| 7 | Q. Do you know whether there are | 7 | Q. In the paragraph that we were |
| 8 | standard tests for genotoxicity and mutagenicity? | 8 | looking at earlier, where you were talking about the startling regularity, later on in |
| 9 | | 9 | the paragraph you state that there |
| 10 | | 10 | is clearly sufficient particulate |
| 11 | tests, yes. | 11 | materials applied routinely to the perineum |
| 12 | Q. And Saed didn't use any of those, did he? | 12 | have ready access and in sufficient |
| 13 | | 13 | quantities to produce biologic responses in |
| 14 | MS. O'DELL: Object to the form. | 14 | internal tissues. |
| 15 | A. Well, he went directly to cells | 15 | What internal tissues have you |
| 16 | in culture to see what happened when they | 16 | seen any study recording a biologic response |
| 17 | were treated with talc. | 17 | to tale from? |
| | | ı + ' | |
| | | 18 | That was such a had question |
| 18 | BY MS. BOCKUS: | 18 19 | That was such a bad question, |
| 18 19 | BY MS. BOCKUS: Q. Does the amount of talc that | 19 | I'm going to ask it again. |
| 18 19 20 | BY MS. BOCKUS: Q. Does the amount of talc that Saed used compare in any way to the amount of | 19 20 | I'm going to ask it again. What internal tissues are you |
| 18 19 20 21 | BY MS. BOCKUS: Q. Does the amount of talc that Saed used compare in any way to the amount of talc that may reach a woman's ovary from | 19 20 21 | I'm going to ask it again. What internal tissues are you referring to there? |
| 18 19 20 21 22 | BY MS. BOCKUS: Q. Does the amount of talc that Saed used compare in any way to the amount of talc that may reach a woman's ovary from perineal application? | 19 20 21 22 | I'm going to ask it again. What internal tissues are you referring to there? A. Well, it says including |
| 18 19 20 21 22 23 | BY MS. BOCKUS: Q. Does the amount of talc that Saed used compare in any way to the amount of talc that may reach a woman's ovary from perineal application? MS. O'DELL: Object to the | 19 20 21 22 23 | I'm going to ask it again. What internal tissues are you referring to there? A. Well, it says including including ovaries and surrounding structures. |
| 18 19 20 21 22 | BY MS. BOCKUS: Q. Does the amount of talc that Saed used compare in any way to the amount of talc that may reach a woman's ovary from perineal application? | 19 20 21 22 | I'm going to ask it again. What internal tissues are you referring to there? A. Well, it says including |

| | Page 322 | | Page 324 |
|--|---|--|---|
| 1 | the fallopian fimbriae and the epithelium of | 1 | fallopian tube goes into that fluid and just |
| 2 | the cavity. | 2 | gets moved around all the time; is that |
| 3 | Q. So and I know we've been | 3 | correct? |
| 4 | through this already, but to your knowledge, | 4 | MS. O'DELL: Objection. Excuse |
| 5 | there are no studies reporting biologic | 5 | me. Objection, form. |
| 6 | responses to talc in the vagina, correct? | 6 | A. Well, there's a fairly direct |
| 7 | A. Not that I'm aware. | 7 | presentation of the ovary, so there's not a |
| 8 | Q. You're not aware of any studies | 8 | large space there, but there is a space. And |
| 9 | reporting biologic responses to talc in the | 9 | whatever goes into that space remains there. |
| 10 | cervix, correct? | 10 | Some of it may come back out. |
| 11 | A. Correct. | 11 | BY MS. BOCKUS: |
| 12 | Q. Are you aware of any studies | 12 | Q. Does the fallopian tube move |
| 13 | reporting biologic response to the uterus? | 13 | around during the month? |
| 14 | A. No. | 14 | MS. O'DELL: Object to the |
| 15 | Q. Are you aware of any studies | 15 | form. |
| 16 | reporting a biologic response in the | 16 | A. I don't know. |
| 17 | fallopian tubes? | 17 | MS. BOCKUS: I'm almost |
| 18 | MS. O'DELL: Object to the | 18 | finished. I'm going through all the |
| 19 | form. | 19 | things that I've crossed off. |
| 20 | A. Well, I don't I'm not aware | 20 | BY MS. BOCKUS: |
| 21 | of studies that draws a direct correlation | 21 | Q. So I understand you correctly, |
| 22 | between exposure to talc and reaction in the | 22 | you have not identified a nonthreshold dose |
| 23 | fallopian tubes. | 23 | of tale; is that correct? |
| 24 | /// | 24 | MS. O'DELL: Object to the |
| | Page 323 | | |
| 1 | BY MS. BOCKUS: | 1 | form. |
| 2 | Q. Okay. Is the ovary attached to | 2 | A. You mean a dose that is below a |
| 3 | the fallopian tube? | _ | |
| | | 3 | safe threshold? |
| 4 | • | 3 4 | safe threshold? BY MS. BOCKUS: |
| 4 | A. It is it's in the proximity. | 4 | BY MS. BOCKUS: |
| 4 5 | A. It is it's in the proximity. It's not directly attached. | | BY MS. BOCKUS: Q. Correct. |
| 4 | A. It is it's in the proximity.It's not directly attached.Q. And what surrounds the ovary? | 4 5 | BY MS. BOCKUS: Q. Correct. A. No, I have not. |
| 4 5 6 | A. It is it's in the proximity. It's not directly attached. Q. And what surrounds the ovary? A. There's a structure that the | 4 5 6 | BY MS. BOCKUS: Q. Correct. A. No, I have not. Q. Did you make any attempt to |
| 4 5 6 7 | A. It is it's in the proximity. It's not directly attached. Q. And what surrounds the ovary? A. There's a structure that the ovary itself? | 4 5 6 7 | BY MS. BOCKUS: Q. Correct. A. No, I have not. |
| 4 5 6 7 8 | A. It is it's in the proximity. It's not directly attached. Q. And what surrounds the ovary? A. There's a structure that the ovary itself? Q. Yes. | 4 5 6 7 8 | BY MS. BOCKUS: Q. Correct. A. No, I have not. Q. Did you make any attempt to extrapolate a de minimis risk level? |
| 4 5 6 7 8 9 | A. It is it's in the proximity. It's not directly attached. Q. And what surrounds the ovary? A. There's a structure that the ovary itself? Q. Yes. | 4 5 6 7 8 9 | BY MS. BOCKUS: Q. Correct. A. No, I have not. Q. Did you make any attempt to extrapolate a de minimis risk level? MS. O'DELL: Object to the |
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| | Page 326 | | Page 328 |
|--|--|--|---|
| 1 | A. Well, we'd need we'd need | 1 | you? In other words, are they referred by |
| 2 | dose information, first of all, which we | 2 | other people? |
| 3 | don't have, to combine with the epidemiologic | 3 | A. I have primarily a referral |
| 4 | results. | 4 | practice in toxicology. |
| 5 | We need to define the | 5 | Q. In toxicology? And so what |
| 6 | mechanistic issues better than they are | 6 | types of patients are referred to you? |
| 7 | currently, and at that point I think we would | 7 | A. I have patients who are either |
| 8 | be able to make some strong conclusions | 8 | workplace-related patients who have had |
| 9 | regarding potential thresholds of hazardous | 9 | chemical or other substance exposures. I |
| 10 | doses. | 10 | also have a number of environmental exposure |
| 11 | Q. You would agree that the great | 11 | patients that I see. |
| 12 | majority of women who use talcum powder on a | 12 | And I also have a number of |
| 13 | regular basis are never diagnosed with | 13 | I also see a number of patients for general |
| 14 | ovarian cancer, correct? | 14 | routine surveillance activities or required |
| 15 | A. I think that's true. | 15 | exams by regulation, either for licensure or |
| 16 | Q. And it's also true that the | 16 | certification. |
| 17 | majority of women diagnosed with ovarian | 17 | Q. Are you sent patients where the |
| 18 | cancer have never used talcum powder on a | 18 | patient is trying to figure out why they got |
| 19 | regular basis, correct? | 19 | some disease? |
| 20 | MS. O'DELL: Object to the | 20 | A. Sometimes. Usually the patient |
| 21 | form. | 21 | comes and tells me why they got the disease, |
| 22 | A. I think it's a majority, but | 22 | and I go I talk to them about the |
| 23 | there's a significant number who have. | 23 | possibilities, and we look at ways of |
| 24 | /// | 24 | confirming that or refuting it, or in many |
| | | | |
| | Dama 207 | | |
| | Page 327 | | Page 329 |
| 1 | BY MS. BOCKUS: | 1 | cases, altering to a correct path of |
| 1 2 | | 1 2 | cases, altering to a correct path of diagnostic investigation. |
| 2 | BY MS. BOCKUS: | | cases, altering to a correct path of diagnostic investigation. Q. So sometimes a patient comes to |
| 2 3 4 | BY MS. BOCKUS: Q. But the majority have not, | 2 | cases, altering to a correct path of diagnostic investigation. Q. So sometimes a patient comes to you and says: I was exposed to this chemical |
| 2 3 4 5 | BY MS. BOCKUS: Q. But the majority have not, correct? A. I would say more than 50% have not. | 2 3 4 5 | cases, altering to a correct path of diagnostic investigation. Q. So sometimes a patient comes to you and says: I was exposed to this chemical and that's why I can't breathe? |
| 2 3 4 5 6 | BY MS. BOCKUS: Q. But the majority have not, correct? A. I would say more than 50% have not. Q. And would you agree that let | 2 3 4 5 6 | cases, altering to a correct path of diagnostic investigation. Q. So sometimes a patient comes to you and says: I was exposed to this chemical and that's why I can't breathe? A. Yes. |
| 2 3 4 5 6 7 | BY MS. BOCKUS: Q. But the majority have not, correct? A. I would say more than 50% have not. Q. And would you agree that let me back up. | 2 3 4 5 6 7 | cases, altering to a correct path of diagnostic investigation. Q. So sometimes a patient comes to you and says: I was exposed to this chemical and that's why I can't breathe? A. Yes. Q. And you do an investigation, |
| 2 3 4 5 6 7 8 | BY MS. BOCKUS: Q. But the majority have not, correct? A. I would say more than 50% have not. Q. And would you agree that let me back up. When is the last time you | 2 3 4 5 6 7 8 | cases, altering to a correct path of diagnostic investigation. Q. So sometimes a patient comes to you and says: I was exposed to this chemical and that's why I can't breathe? A. Yes. Q. And you do an investigation, and sometimes you say: You know what, that |
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|----------------------------|---|----------------|---|
| | Page 330 | | Page 332 |
| 1 | confused. | 1 | for that population of women? |
| 2 | Q. Have you ever been referred a | 2 | A. Well, it varies depending on |
| 3 | patient to determine why they have ovarian | 3 | the research study that has been done, but |
| 4 | cancer? | 4 | I've seen odds ratios or relative risks all |
| 5 | A. No. | 5 | the way from 1 or even below to very high |
| 6 | Q. Do you know of any methodology | 6 | numbers, like 20 to 50. |
| 7 | accepted in the medical community for | 7 | Q. 20.0, is that what you're |
| 8 | determining why an individual woman has | 8 | saying? |
| 9 | developed ovarian cancer? | 9 | A. Yes, 20.0. |
| 10 | MS. O'DELL: Object to the | 10 | Q. Not 1.2, but 20.0? |
| 11 | form. | 11 | A. Correct. |
| 12 | A. Other than genetic testing that | 12 | Q. Okay. |
| 13 | identifies specific risks and history taking | 13 | A. Which is a which would be 20 |
| 14 | that might identify other known risk factors | 14 | times the normal risk without the exposure. |
| 15 | for that woman, there is I don't believe | 15 | Q. Okay. So we've got obesity and |
| 16 | that there is any good or prescribed | 16 | heavy exposure to asbestos. Any other risk |
| 17 | procedure for making that determination, and | 17 | factors that you're familiar with? |
| 18 | there is no reasonable screening test that | 18 | MS. O'DELL: Objection |
| 19 | can find that cancer when it is at an early | 19 | excuse me. Objection, misstates the |
| 20 | stage. | 20 | doctor's testimony. |
| 21 | BY MS. BOCKUS: | 21 | You may answer. |
| 22 | Q. Do you believe that obesity | 22 | THE WITNESS: Okay. |
| 23 | causes ovarian cancer? | 23 | A. Other risk factors for ovarian |
| 24 | A. It certainly seems to be | 24 | cancer would include things like early |
| | A. It certainly seems to be | 21 | cancer would include things like earry |
| | Page 331 | | Page 333 |
| 1 | related to the occurrence of ovarian cancer | 1 | menarche, late menopause, never being |
| 2 | from a statistical point of view. | 2 | pregnant. These are some of the more common |
| 3 | Q. What is the increase in a | 3 | risk factors that are identified. |
| 4 | woman's risk of ovarian cancer if she's obese | 4 | There are genetic risk factors |
| 5 | compared to a nonobese woman? | 5 | that are known, like the BRCA mutations, |
| 6 | A. In terms of numbers? | 6 | which confer an increased risk. Family |
| 7 | Q. Yes, sir. | 7 | history. |
| 8 | A. I don't know the I don't | 8 | BY MS. BOCKUS: |
| 9 | know the numbers. | 9 | Q. Do you know the odds ratios of |
| 10 | Q. What other risk factors are you | 10 | any of the risk factors that you just |
| 11 | familiar with for ovarian cancer? | 11 | identified of never having children, having |
| 12 | A. Well, certainly work with | 12 | early menarche or late menopause? |
| 13 | asbestos is a risk factor, and we have a | 13 | A. Right offhand, I don't know |
| 14 | number of studies that have shown women | 14 | what those odds ratios the range of those |
| 15 | working in the asbestos industry or women who | 15 | are. |
| 16 | are married to asbestos workers and have | 16 | Q. Do you know if any of those |
| 17 | secondary exposure presumably from that are | 17 | odds ratios exceed 1.3? |
| • | at risk for ovarian cancer. | 18 | A. I think they do. |
| | Dat and o : Washell WHILVEL! | 19 | · · |
| 18 | | 1 19 | O. Does mai lead von 10 concince |
| 18 19 | There are | | Q. Does that lead you to conclude that those things cause ovarian cancer? |
| 18 19 20 | There are Q. Let me stop you just one | 20 | that those things cause ovarian cancer? |
| 18 19 20 21 | There are Q. Let me stop you just one second. | 20 21 | that those things cause ovarian cancer? A. It certainly argues for that. |
| 18 19 20 21 22 | There are Q. Let me stop you just one second. A. Yes. | 20 21 22 | that those things cause ovarian cancer? A. It certainly argues for that. The there's a risk factor that derives |
| 18 19 20 21 | There are Q. Let me stop you just one second. | 20 21 | that those things cause ovarian cancer? A. It certainly argues for that. |

| | Page 334 | | Page 336 |
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| 1 | But also, some of these risk | 1 | Q. So you think you just ran into |
| 2 | factors are so common in the population that | 2 | her? |
| 3 | we can concoct large cohort studies that will | 3 | A. Yeah. |
| 4 | have can have very low relative risks, | 4 | Q. The other people that you |
| 5 | like on the order of 1.3 or even lower, and | 5 | identified that you discussed your report |
| 6 | still a significant result. | 6 | with, did you ask them to read your report? |
| 7 | So the more common a factor is, | 7 | A. I asked them to look at parts |
| 8 | the easier it is to do the research and the | 8 | of it, early drafts of it to let me know if |
| 9 | more likely you'll get a finding that's | 9 | they thought I was making sense. |
| 10 | relevant to interpretation. | 10 | Q. And did they offer you comments |
| 11 | Q. What pushes a talc particle | 11 | and suggestions for changes in your paper? |
| 12 | from the perineum into the vagina? | 12 | A. Not really. Mostly they gave |
| 13 | A. Probably mostly the law of mass | 13 | me a pat on the back and said: I think |
| 14 | action. It simply goes of its own volition. | 14 | you're doing a good job, just sort of beef |
| 15 | These small particles are always in motion | 15 | this part up, and what do you mean by this, |
| 16 | through molecular forces, and they simply | 16 | maybe I could rephrase that. That sort of |
| 17 | move in all directions, and some of them move | 17 | • |
| 18 | in that direction. | l | thing. |
| | | 18 | Q. Did they give you written |
| 19 | Q. Would that be true for any | 19 | suggestions? |
| 20 | small particles applied to a woman's | 20 | A. No, these were all verbal |
| 21 | perineum? | 21 | comments. |
| 22 | A. Yes. | 22 | Q. Had you given them a hard copy |
| 23 | Q. Are you board certified in | 23 | of the portions of your report that you |
| 24 | medical toxicology? | 24 | wanted them to comment on? |
| | Page 335 | | Page 337 |
| 1 | A. I'm not. I started practicing | 1 | A. Yes. |
| 2 | medical toxicology before there was a board | 2 | Q. And they didn't redline it or |
| 3 | in the specialty, and I've been grandfathered | 3 | make draw arrows or anything like that for |
| 4 | into the profession as a member of the | 4 | you? |
| 5 | American College of Medical Toxicology. | 5 | A. I think actually George Delclos |
| 6 | Q. How long did you talk to | 6 | did draw some or make some notes on there |
| 7 | Dr. Ness about her paper? | 7 | and hand it back to me, and I incorporated |
| 8 | A. About her paper, probably a | 8 | those into my electronic version. |
| 9 | minute and a half. About all kinds of other | 9 | Q. Do you still have George's |
| 10 | things, for a while. | 10 | notes to you? |
| 11 | Q. What other kinds of things? | 11 | A. No, I don't. |
| 12 | A. Mostly personal things that had | 12 | Q. Is he the only one out of the |
| 13 | nothing to do with talc or this case. | 13 | people that you asked to look at it who gave |
| 14 | Q. How long do you think that | 14 | you handwritten notes? |
| 15 | conversation was? | 15 | A. Yes, I think so. |
| 16 | A. Well, with Dr. Ness, nothing | 16 | Q. Have you seen the term |
| 17 | lasts very long, so I would say ten minutes | 17 | "intrinsic elimination system" regarding the |
| 18 | at the most. | 18 | ovary in any of the publications that you've |
| 19 | Q. Okay. Did you call her? | 19 | read? |
| 20 | A. No. She's she comes and | 20 | A. I don't know, I may have. |
| 21 | goes in the same building where I office, and | 21 | Q. Can you think of one in |
| 22 | my office is just on the opposite side of the | 22 | particular that discusses that characteristic |
| 23 | floor of hers, and I see her sometimes in | 23 | of that you believe relates to the ovary? |
| 24 | passing or in the elevator. | 24 | A. Well, the migration papers |
| | 10 | I | , |

| | Page 338 | | Page 340 |
|--|--|--|---|
| 1 | discuss migration to the ovary. It would | 1 | that? |
| 2 | probably be a talc paper, though. I don't | 2 | A. Well, I saw this actually when |
| 3 | recall seeing it anywhere. | 3 | I first started this process, and I think |
| 4 | Q. Did you consult any gynecologic | 4 | Dr. Longo was involved in that activity, |
| 5 | textbooks? | 5 | where they modeled the the application of |
| 6 | A. No, I didn't. I may have | 6 | talcum powder and did some calculations based |
| 7 | looked at some diagrams on the Internet. | 7 | on the amount of substance that was used, and |
| 8 | Q. Okay. Did you consult any | 8 | they measured it in things like shakes and |
| 9 | gynecologic oncology textbooks? | 9 | and then quantified the amount that was lost |
| 10 | A. Not textbooks, no. | 10 | from the container to determine what an |
| 11 | Q. Do you know the position of the | 11 | application amount was. |
| 12 | Society of Gynecologic Oncologists on the | 12 | I don't think they were able to |
| 13 | question of whether does talc increase a | 13 | go beyond that point in the modeling process. |
| 14 | woman's risk for ovarian cancer? | 14 | Q. You didn't see anything that |
| 15 | A. No, I don't. | 15 | Dr. Longo did that attempted to quantify the |
| 16 | Q. Would that be important to you | 16 | amount of talcum powder from a single shake |
| 17 | to know their position? | 17 | that ended up on a woman's perineum, did you? |
| 18 | A. No, I don't think so. | 18 | MS. O'DELL: Object to the |
| 19 | Q. Do you know the position of | 19 | form. |
| 20 | ACOG on whether the use of perineal use of | 20 | A. I you know, I don't know the |
| 21 | talc increases a woman's risk of ovarian | 21 | answer to that, simply because I don't |
| 22 | cancer? | 22 | recall, but I wouldn't be surprised that |
| 23 | A. I don't know that either. | 23 | there was an attempt made to do that. But |
| 24 | That's not something I've looked at. | 24 | beyond that, I don't think anything would be |
| | | | |
| | | | |
| | Page 339 | | Page 341 |
| 1 | Page 339 Q. Would that be important to you? | 1 | Page 341 successful. |
| 1 2 | | 1 2 | |
| | Q. Would that be important to you? | | successful. |
| 2 | Q. Would that be important to you?A. No. | 2 | successful. These were clothed subjects, so |
| 2 | Q. Would that be important to you?A. No.Q. Do you have any scientific text | 2 | successful. These were clothed subjects, so that adds another factor to the calculation. |
| 2 3 4 | Q. Would that be important to you?A. No.Q. Do you have any scientific text that suggests that an inert particle resides | 2 3 4 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen |
| 2 3 4 5 | Q. Would that be important to you? A. No. Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the | 2 3 4 5 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment |
| 2 3 4 5 6 | Q. Would that be important to you?A. No.Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the cervix? | 2 3 4 5 6 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen |
| 2 3 4 5 6 7 | Q. Would that be important to you? A. No. Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the cervix? A. Well, I have I have a paper | 2 3 4 5 6 7 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen anywhere that attempts to quantify the amount |
| 2 3 4 5 6 7 8 | Q. Would that be important to you? A. No. Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the cervix? A. Well, I have I have a paper that relates to the time for dissolution of a | 2 3 4 5 6 7 8 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen anywhere that attempts to quantify the amount of talcum powder from a single use that ends |
| 2 3 4 5 6 7 8 9 | Q. Would that be important to you? A. No. Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the cervix? A. Well, I have I have a paper that relates to the time for dissolution of a particle in biological fluids, which would go | 2 3 4 5 6 7 8 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen anywhere that attempts to quantify the amount of talcum powder from a single use that ends up actually on a woman's perineum? |
| 2 3 4 5 6 7 8 9 | Q. Would that be important to you? A. No. Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the cervix? A. Well, I have I have a paper that relates to the time for dissolution of a particle in biological fluids, which would go to the length of time a particle of talc | 2 3 4 5 6 7 8 9 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen anywhere that attempts to quantify the amount of talcum powder from a single use that ends up actually on a woman's perineum? A. There was another part of that |
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| 2 3 4 5 6 7 8 9 10 11 | Q. Would that be important to you? A. No. Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the cervix? A. Well, I have I have a paper that relates to the time for dissolution of a particle in biological fluids, which would go to the length of time a particle of talc remains in the ovary once it gets there. But I don't have I don't | 2 3 4 5 6 7 8 9 10 11 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen anywhere that attempts to quantify the amount of talcum powder from a single use that ends up actually on a woman's perineum? A. There was another part of that study where they applied it to underwear with the same sort of calculation process. It was |
| 2 3 4 5 6 7 8 9 10 11 12 | Q. Would that be important to you? A. No. Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the cervix? A. Well, I have I have a paper that relates to the time for dissolution of a particle in biological fluids, which would go to the length of time a particle of talc remains in the ovary once it gets there. But I don't have I don't know that I have a scientific paper that | 2 3 4 5 6 7 8 9 10 11 12 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen anywhere that attempts to quantify the amount of talcum powder from a single use that ends up actually on a woman's perineum? A. There was another part of that study where they applied it to underwear with the same sort of calculation process. It was all part of the same modeling process. |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | Q. Would that be important to you? A. No. Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the cervix? A. Well, I have I have a paper that relates to the time for dissolution of a particle in biological fluids, which would go to the length of time a particle of talc remains in the ovary once it gets there. But I don't have I don't know that I have a scientific paper that specifically says that it stays in the ovary longer than it stays in the cervix. Q. You testified that you | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen anywhere that attempts to quantify the amount of talcum powder from a single use that ends up actually on a woman's perineum? A. There was another part of that study where they applied it to underwear with the same sort of calculation process. It was all part of the same modeling process. Q. And do you recall what percentage of the talc applied to the underwear ended up adhered to the woman's |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | Q. Would that be important to you? A. No. Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the cervix? A. Well, I have I have a paper that relates to the time for dissolution of a particle in biological fluids, which would go to the length of time a particle of talc remains in the ovary once it gets there. But I don't have I don't know that I have a scientific paper that specifically says that it stays in the ovary longer than it stays in the cervix. Q. You testified that you understand there have been some attempts to | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen anywhere that attempts to quantify the amount of talcum powder from a single use that ends up actually on a woman's perineum? A. There was another part of that study where they applied it to underwear with the same sort of calculation process. It was all part of the same modeling process. Q. And do you recall what percentage of the talc applied to the underwear ended up adhered to the woman's perineum? |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | Q. Would that be important to you? A. No. Q. Do you have any scientific text that suggests that an inert particle resides on the ovary longer than it does in the cervix? A. Well, I have I have a paper that relates to the time for dissolution of a particle in biological fluids, which would go to the length of time a particle of talc remains in the ovary once it gets there. But I don't have I don't know that I have a scientific paper that specifically says that it stays in the ovary longer than it stays in the cervix. Q. You testified that you understand there have been some attempts to quantify the amount of talc, I guess from a single use, that ends up on the perineum. Did I understand that correctly? | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | successful. These were clothed subjects, so that adds another factor to the calculation. BY MS. BOCKUS: Q. Is that the only experiment that you're familiar with that you've seen anywhere that attempts to quantify the amount of talcum powder from a single use that ends up actually on a woman's perineum? A. There was another part of that study where they applied it to underwear with the same sort of calculation process. It was all part of the same modeling process. Q. And do you recall what percentage of the talc applied to the underwear ended up adhered to the woman's perineum? MS. O'DELL: Object to the form. A. I don't think I don't think |

Page 342 Page 344 1 BY MS. BOCKUS: 1 Uh-huh. 2 Q. Okay. Can you tell me the 2 And echoing what my colleagues 3 names of the environmental websites that have 3 have said today, if there's at any point I been talking about IARC revisiting their 4 ask a question that you do not understand, 4 5 just stop me and ask me to rephrase it or let 5 classification of tale? 6 6 There are -- there are a number me know otherwise, okay? A. I will. 7 of Twitter feeds and websites that carry on 7 8 8 this kind of discussion. Science Interest is O. Thanks. 9 one of them. I think IARC Watch is another 9 So going back shortly to your one. I have -- I get e-mails about some of 10 10 scope of work, do you teach any coursework on 11 these and end up going into them for a period 11 talc or ovarian cancer? of time and seeing if they have anything A. I teach some general courses. 12 12 13 interesting going on. Some of them are 13 Up until last spring I taught a general 14 searchable. 14 environmental health course for graduate 15 students in the Master of Public Health 15 And then I get e-mails from the 16 16 ones that I visit about other ones. So I program at the School of Public Health, and 17 in that course we did touch on things like 17 spend as much of my time deleting these 18 e-mails without reading them as I do actually 18 environmental exposures that would include minerals of various varieties, but it was 19 viewing the material. 19 20 Q. So fair to say this is just 20 very cursory. 21 21 chatter you've seen on the Internet in these Q. And was that curriculum 22 different chat rooms or Twitter accounts that 22 specific to environmental and industrial 23 products or minerals as opposed to consumer 23 you visit from time to time? 24 A. It's all Internet based, yes. 24 products? Page 343 Page 345 MS. BOCKUS: Okay. I think 1 1 A. We actually did touch on other 2 that's all I have. Thank you. 2 consumer products as well in terms of the 3 3 MS. O'DELL: Why don't we take significant environmental problem that we a short break. We've been going about 4 have currently, but -- regarding the huge 4 5 5 two hours. volume of personal care products that goes 6 MR. ZELLERS: Do you have 6 into our aqueous waste stream and how that's 7 7 affecting the aquatic environment as well as questions? 8 8 groundwater and so forth. MS. APPEL: I do, but --9 9 As a matter of fact, in that MS. O'DELL: Yeah, do you 10 course, as part of the culmination of the 10 have --11 MS. APPEL: I don't have a lot. 11 course, there are student workgroups that 12 MS. O'DELL: Okay. Sure. Why 12 develop presentations on a particular topic, 13 don't you go ahead, and then we'll 13 and the topic of personal care products has 14 take a break. We have been going 14 been a favorite choice for the last several 15 about two hours, but, Renée, please. 15 vears. 16 If you're okay, Doctor. 16 But your curriculum did not 17 THE WITNESS: I'm fine. 17 include talc among those products? 18 **EXAMINATION** 18 MS. O'DELL: Object to the BY MS. APPEL: 19 19 form. 20 Q. It's been a while since we did 20 A. I think talc may have been 21 introductions, so just as a reminder, my name 21 represented as an individual mineral on a 22 is Renée Appel and I'm here on behalf of 22 slide that listed many minerals. 23 Seyfarth Shaw and I represent Personal Care 23 BY MS. APPEL: 24 Products, counsel. 24 Q. Earlier today you had mentioned

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| 1 | a shared file. Is that shared file something | 1 | accumulating information in the draft as a |
| 2 | that you created or plaintiffs' counsel | 2 | result of my review of the literature. |
| 3 | created? | 3 | So if I had to separate things |
| 4 | A. It's something that I think | 4 | out, I would say that, by far, the most of |
| 5 | plaintiffs' counsel created for me to be able | 5 | the time has been spent in reading articles |
| 6 | to send them documents and receive documents, | 6 | and reviewing them and comparing them with |
| 7 | and it's a Dropbox share file. It's at | 7 | other articles, and a comparatively small |
| 8 | this point I think it might be mine. I'm not | 8 | amount of time has been spent in drafting the |
| 9 | sure just exactly who's in charge of that or | 9 | report. |
| 10 | runs it, but it comes directly into my | 10 | Although there were some |
| 11 | Dropbox file. | 11 | strings of activity which was all report |
| 12 | I know I had to boost my | 12 | drafting basically, I would say probably 85 |
| 13 | subscription to Dropbox in order to hold the | 13 | to 90% was research, seeking articles, |
| 14 | 2 gigabytes of data from that we were | 14 | reading them, reviewing them, and comparing |
| 15 | putting into there. | 15 | them. |
| 16 | Q. Is there anything from that | 16 | Q. And you also testified earlier |
| 17 | Dropbox file that you relied upon in forming | 17 | today that you discarded information not |
| 18 | your opinion in your report that you have not | 18 | relevant or interesting to you. |
| 19 | already provided to defense counsel? | 19 | How did you make that |
| 20 | A. No, everything that was in that | 20 | determination? |
| 21 | Dropbox that I've relied upon has been | 21 | MS. O'DELL: Objection to the |
| 22 | identified here. | 22 | form. |
| 23 | Q. Who prepared Exhibit B to your | 23 | A. The things that I discarded did |
| 24 | report? | 24 | not seem to fit into my gestalt of the |
| | • | | . 0 |
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| | Page 347 | | Page 349 |
| 1 | Page 347 A. Exhibit B was a list of | 1 | Page 349 understanding of this question and the |
| 1 2 | A. Exhibit B was a list of articles from the research literature | 1 2 | understanding of this question and the opinions that I wanted to express. They may |
| | A. Exhibit B was a list of articles from the research literature included in the Dropbox that that I think | | understanding of this question and the |
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| 1 | Page 350 | | Page 352 |
| 1 | cancer; is that correct? | 1 | usually administer to my patients, and I have |
| 2 | A. Not knowingly, not because of | 2 | plans to add that as a question in my |
| 3 | ovarian cancer. | 3 | environmental exposure survey. Which I |
| 4 | Q. Have you ever diagnosed any | 4 | haven't done already, but will as soon as I |
| 5 | patients with ovarian cancer? | 5 | get the opportunity. |
| 6 | A. I think when I was in medical | 6 | BY MS. APPEL: |
| 7 | school or residency, I probably participated | 7 | Q. You testified earlier today |
| 8 | in that on several patients. | 8 | that you do not believe there was ever a |
| 9 | Q. Have you ever instructed a | 9 | point where talcum powder did not contain |
| 10 | patient not to use talcum powder products? | 10 | asbestos, correct? |
| 11 | A. I hadn't up until a month or | 11 | A. Yes. |
| 12 | two ago, but I've been asking people about | 12 | Q. So in forming your opinion in |
| 13 | about their talcum powder use just as sort of | 13 | your report, you've assumed that the talcum |
| 14 | a curiosity in mentioning that there might be | 14 | powder does contain asbestos, correct? |
| 15 | a risk. | 15 | MS. O'DELL: Object to the |
| 16 | Q. Do you ask that of all your | 16 | form. |
| 17 | patients? | 17 | A. Well, I think the asbestos |
| 18 | A. I would say no, I don't usually | 18 | contribution to this whole issue is important |
| 19 | ask the men that, but I probably should. | 19 | and significant. I think there's good |
| 20 | Q. And have the responses to those | 20 | evidence that whatever we call talcum powder |
| 21 | inquiries of your female patients and their | 21 | is carcinogenic and responsible for ovarian |
| 22 | talcum product use, has that been used at all | 22 | cancer as a cause of ovarian cancer, but I |
| 23 | to inform your opinions in this case? | 23 | can't say I can't say based on looking at |
| 24 | A. I don't think so. There have | 24 | a can of talcum powder whether or not it has |
| | | | 1 |
| | Page 351 | | Page 353 |
| 1 | been very few that I have asked that question | 1 | 1 |
| | | + | asbestos in it or how much. |
| 2 | in the last month or so. I've had a limited | 2 | asbestos in it or how much. BY MS. APPEL: |
| 3 | clinic schedule during this period of time. | | |
| | | 2 | BY MS. APPEL: |
| 3 | clinic schedule during this period of time. | 2 | BY MS. APPEL: Q. Have you formed an opinion, |
| 3 4 | clinic schedule during this period of time. We had the holidays and other things, so I | 2 3 4 | BY MS. APPEL: Q. Have you formed an opinion, Dr. Carson, on whether there's a relationship |
| 3 4 5 | clinic schedule during this period of time. We had the holidays and other things, so I haven't seen that many patients. | 2 3 4 5 | BY MS. APPEL: Q. Have you formed an opinion, Dr. Carson, on whether there's a relationship between pure talc and ovarian cancer? |
| 3 4 5 6 | clinic schedule during this period of time. We had the holidays and other things, so I haven't seen that many patients. And of those I've asked about | 2 3 4 5 6 | BY MS. APPEL: Q. Have you formed an opinion, Dr. Carson, on whether there's a relationship between pure talc and ovarian cancer? MS. O'DELL: Objection to form. A. My opinion is there is, but that's based on the research reports that |
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| 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | clinic schedule during this period of time. We had the holidays and other things, so I haven't seen that many patients. And of those I've asked about it, it seems about half of the women have had a history of using talcum powder. Q. And of those women that are using have told you that they have used talcum powder, are those women diagnosed with ovarian cancer? A. No. Q. So suffice to say the inquiry that you've asked of your female patients concerning their talcum use has nothing to do with the question that you've been posed in this particular litigation? MS. O'DELL: Object to the form. A. Actually, that's the only | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | BY MS. APPEL: Q. Have you formed an opinion, Dr. Carson, on whether there's a relationship between pure talc and ovarian cancer? MS. O'DELL: Objection to form. A. My opinion is there is, but that's based on the research reports that have been done using so-called pure talc, talcum powder, and I am I my opinion is that it's unlikely that those test substances actually are pure talc. BY MS. APPEL: Q. So again, Dr. Carson, in forming your opinions, you have done so on the belief that all the talc powder products or just pure talc do, in fact, contain asbestos? MS. O'DELL: Objection to form. A. It is my opinion that all talcum powder products do contain a certain |

| | Page 354 | | Page 356 |
|----|--|----|---|
| 1 | based on research that has been done on | 1 | classified by IARC. |
| 2 | available talcum powder products, so I guess | 2 | BY MS. APPEL: |
| 3 | the research would have been done using some | 3 | Q. But it's your opinion that a |
| 4 | small quantity of asbestos in all of those | 4 | possible carcinogen strike that. |
| 5 | studies. | 5 | It's your opinion that any dose |
| 6 | BY MS. APPEL: | 6 | of a possible carcinogen can cause cancer? |
| 7 | Q. You also testified today, | 7 | MS. O'DELL: Objection to form. |
| 8 | Dr. Carson, that you have found in your | 8 | A. Yes, I think there is a |
| 9 | research that there is a dose-response | 9 | potential for any dose of a carcinogen to |
| 10 | relationship between talcum powder products | 10 | cause a cancer. There's also the principle |
| 11 | and ovarian cancer, correct? | 11 | that the lower the dose, the less likely it |
| 12 | A. Well, a number of the research | 12 | is, the lower the risk is for developing a |
| 13 | studies, the epidemiology studies have shown | 13 | 1 |
| 14 | positive and statistically significant | 14 | cancer. BY MS. APPEL: |
| 15 | trends. | 15 | |
| 16 | Q. And those trends that you're | 16 | Q. And your opinion extends to |
| 17 | The state of the s | | those particles that have not been identified |
| 18 | relying on, Dr. Carson, actually only relate | 17 | as carcinogens, but may just be possible |
| 19 | to duration and frequency, correct? | 18 | carcinogens? |
| - | MS. O'DELL: Objection to form. | 19 | A. I think talc has been |
| 20 | A. Yes, they do relate to duration | 20 | identified as a carcinogen. |
| 21 | and frequency, which is the only surrogate we | 21 | Q. So you disagree with the IARC |
| 22 | have for dose. | 22 | classification? |
| 23 | BY MS. APPEL: | 23 | A. The IARC 2B classification is a |
| 24 | Q. So in forming your opinion, | 24 | carcinogenic classification. |
| | Page 355 | | Page 357 |
| 1 | Dr. Carson, you have not determined a level | 1 | Q. But you recognize and that |
| 2 | of harmful exposure to talcum powder products | 2 | there are different types of categories that |
| 3 | that causes ovarian cancer? | 3 | IARC has? |
| 4 | A. That's correct. | 4 | A. Yes. |
| 5 | Q. And you did not conduct a dose | 5 | Q. And that it's that tale that |
| 6 | assessment between talcum powder products and | 6 | does not contain asbestos was not, in fact, |
| 7 | ovarian cancer, correct? | 7 | categorized as a Group 1, correct? |
| 8 | MS. O'DELL: Objection to form. | 8 | A. That's correct. |
| 9 | A. Well, I did not conduct a | 9 | Q. So is it your opinion, then, |
| 10 | dose-response, but I am of the opinion that | 10 | looking at other 2B-classified particles by |
| 11 | there's no safe threshold for exposure to a | 11 | IARC, that any exposure to pickled vegetables |
| 12 | carcinogen until such a threshold is | 12 | would cause cancer? |
| 13 | identified. | 13 | A. We know that there are a number |
| 14 | BY MS. APPEL: | 14 | of carcinogens that are regularly present in |
| 15 | Q. And does that include | 15 | things like the food that we eat. We have a |
| 16 | Category 2B particles as well | 16 | rule that says that those things should not |
| 17 | MS. O'DELL: Objection. | 17 | be included in food items unless they have |
| 18 | BY MS. APPEL: | 18 | passed a particular exemption process. |
| 19 | Q that it's a possible | 19 | Pickled vegetables are |
| 20 | carcinogen? | 20 | something that people have been familiar with |
| 21 | MS. O'DELL: Objection to form. | 21 | and have been using for hundreds of years, |
| 22 | A. It includes the talc that was | 22 | and things like talcum powder are things that |
| 23 | discussed in the IARC report. Those | 23 | have been used for well, at least a |
| 24 | conclusions have nothing to do with how it's | 24 | hundred years, but probably considerably |
| | - | | |

Page 358 Page 360 1 longer. 1 Pickled vegetables. 2 2 -- I had was pickled And whether or not those things Q. 3 are carcinogens, there are people who still 3 vegetables, and the question was whether or 4 find enough value to offset that factor in 4 not is your opinion that any consumption of 5 their own lives and they can make their own 5 pickled vegetables causes cancer? 6 decisions regarding their exposure. 6 MS. O'DELL: Objection to form. 7 It's a similar concept to 7 A. I believe the primary form of 8 people who choose to smoke. Although smoking 8 cancer that's potentially related with 9 is an addictive behavior, people are aware 9 pickled vegetables is stomach cancer, and that it causes disease, including cancer, and 10 10 there is a slight increase in risk with yet they continue to smoke. 11 11 consumption of pickled vegetables for 12 We continue to eat grilled everybody who does it. 12 13 meats, even -- most of us know now that 13 BY MS. APPEL: 14 grilled meats contain polycyclic aromatic 14 Q. Okay. And what about gasoline 15 hydrocarbons that are known carcinogens, some 15 or exhaust? of them Group 1 carcinogens, and yet, we 16 16 Gasoline meaning the fuel? Α. 17 continue that practice and revel in it even. 17 Yes. O. That's just part of what we do as human 18 18 A. Well, gasoline used to contain 19 beings. 19 a significant amount of benzene, which was 20 The issue with talc is a 20 a -- determined to be a carcinogenic substance. In recent years, most of the 21 complicated question in my mind. I think I'm 21 22 straying a bit from your -- from your 22 benzene has been removed from gasoline, so question, but baby powder, for example, is 23 23 now there's very little benzene in vapors 24 something that has a very -- very dear sort 24 that are expressed. Page 359 Page 361 1 1 of relationship to many people. But there's a small amount. So 2 The experience with that from 2 when you inhale gasoline vapors, you are also 3 the time you were a baby until you grow up 3 exposing yourself to a very small amount of a 4 and have your own children involves a lot of 4 carcinogenic substance. 5 the use of baby powder in many, many 5 As far as exhaust is concerned, households. That's a difficult relationship б 6 diesel exhaust in particular has -- contains 7 to break. It's psychological as much as it 7 particles that have been identified through 8 8 is knowledge based. various bioassays to be carcinogenic. So 9 So as we go through the 9 diesel exhaust is regulated as a carcinogenic 10 decades, we get a little safer and safer as 10 material, even though we continue to be we begin to peel these habits, these 11 11 exposed. 12 dangerous habits away from our lives and 12 Q. And it's your opinion that any 13 accept better lifestyles. 13 exposure that we all incur related to exhaust 14 MR. ZELLERS: Move to strike as 14 will cause us cancer? 15 nonresponsive. 15 MS. O'DELL: Objection to form. 16 MS. APPEL: Respectfully --16 A. It will cause an increase in risk of cancer. Doesn't necessarily cause 17 MS. BOCKUS: Is he finished? 17 18 MR. ZELLERS: I don't think so. 18 cancer in everybody. 19 THE WITNESS: I can go on. 19 BY MS. APPEL: 20 BY MS. APPEL: 20 Q. Okay. Are you aware that Saed 21 21 has been hired by plaintiffs' counsel in this Q. Yeah. My question was more 22 narrow, and I was analogizing your opinion as 22 litigation? 23 to talcum powder and was asking about other 23 A. I am. And when I misspoke 24 2B classifications, and my example --24 earlier today regarding the Taher paper, I

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Page 364
                                                 Page 362
                                                                                    CERTIFICATE
 1
          was thinking of the Saed paper.
                                                                       2
                                                                                  I, MICHAEL E. MILLER, Fellow of
 2
                   Okay. Last question: Counsel
                                                                            the Academy of Professional Reporters,
Registered Diplomate Reporter, Certified
                                                                       3
 3
          was asking you about the migration process,
                                                                            Realtime Reporter, Certified Court Reporter
                                                                       4
                                                                            and Notary Public, do hereby certify that prior to the commencement of the examination,
  4
          and you mentioned that in the course of
 5
                                                                       5
                                                                            ARCH I. "CHIP" CARSON, M.D., Ph.D. was duly
          particles moving up the track, that some of
                                                                            sworn by me to testify to the truth, the whole truth and nothing but the truth.
 6
          it may come back out even after it reaches
                                                                                 I DO FURTHER CERTIFY that the
 7
          the fluid surrounding the ovaries, correct?
                                                                            foregoing is a verbatim transcript of the
                                                                            testimony as taken stenographically by and
 8
                                                                            before me at the time, place and on the date
 9
                    So if particles have the
                                                                            hereinbefore set forth, to the best of my
              O.
10
          ability to come back out, that means that
                                                                     10
                                                                                  I DO FURTHER CERTIFY that pursuant
11
          there is, in fact, some form of an intrinsic
                                                                     11
                                                                            to FRCP Rule 30, signature of the witness was
                                                                            not requested by the witness or other party
12
          elimination system.
                                                                            before the conclusion of the deposition.

I DO FURTHER CERTIFY that I am
                                                                     12
13
                    Well, if this is all based on
                                                                     13
                                                                            neither a relative nor employee nor attorney
14
          mass action, it would not necessarily be an
                                                                     14
                                                                            nor counsel of any of the parties to this
                                                                            action, and that I am neither a relative nor
15
          intrinsic elimination system, and I believe
                                                                     15
                                                                            employee of such attorney or counsel, and
          that talc particles, once they produce an
                                                                            that I am not financially interested in the
16
                                                                     16
17
          inflammatory response, they become
                                                                     18
18
          sequestered within that inflammatory milieu
                                                                            MICHAEL E. MILLER, FAPR, RDR, CRR
                                                                     19
                                                                            Fellow of the Academy of Professional Reporters
NCRA Registered Diplomate Reporter
19
          and no longer are available for movement back
20
          out into the fluid.
                                                                     20
                                                                            NCRA Certified Realtime Reporter
                                                                            Certified Court Reporter
21
                   I'm sure there's some small
                                                                     21
                                                                            Notary Public in and for the
22
          percentage of them that are an exception to
                                                                     22
                                                                            State of Texas
                                                                            My Commission Expires: 7/9/2020
23
          that, but for the majority, that would be the
                                                                     23
24
          case.
                                                                            Dated: January 22, 2019
                                                                     24
                                                 Page 363
                                                                                                                       Page 365
                   MS. APPEL: Okay. That's all I
                                                                        1
 1
                                                                                        INSTRUCTIONS TO WITNESS
 2
                                                                        2
              have. Thank you, Dr. Carson.
                                                                        3
 3
                   MS. TINSLEY: I don't have any
                                                                                        Please read your deposition over
                                                                        4
  4
              questions.
                                                                                carefully and make any necessary corrections.
                                                                        5
 5
                   MS. O'DELL: Okay. Why don't
                                                                                You should state the reason in the
 б
              we take a short break.
                                                                        6
                                                                                appropriate space on the errata sheet for any
 7
                   THE VIDEOGRAPHER: Off the
                                                                        7
                                                                                corrections that are made.
 8
                                                                        8
                                                                                        After doing so, please sign the
              record at 5:37, end of Tape 4.
 9
                                                                        9
                   (Recess taken, 5:37 p.m. to
                                                                                errata sheet and date it.
10
                                                                      10
              5:44 p.m.)
                                                                                        You are signing same subject to
11
                   THE VIDEOGRAPHER: We're on the
                                                                      11
                                                                                the changes you have noted on the errata
12
              record at 5:44, beginning of Tape 5.
                                                                      12
                                                                                sheet, which will be attached to your
13
                                                                      13
                   MS. O'DELL: Dr. Carson, I
                                                                                deposition.
                                                                      14
14
              don't have any questions, so this will
                                                                                        It is imperative that you return
15
                                                                      15
              conclude your deposition.
                                                                                the original errata sheet to the deposing
                                                                      16
16
                   MR. ZELLERS: Thank you,
                                                                                attorney within thirty (30) days of receipt
17
              Doctor.
                                                                      17
                                                                                of the deposition transcript by you. If you
18
                   THE VIDEOGRAPHER: Going off
                                                                      18
                                                                                fail to do so, the deposition transcript may
19
                                                                      19
              the record, 5:44. End of deposition,
                                                                                be deemed to be accurate and may be used in
20
                                                                      20
              end of Tape 5.
                                                                                court.
                                                                      21
2.1
                   (Proceedings recessed at
                                                                      22
22
              5:45 p.m.)
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| 24 | REASON: | 24 | | | |
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| 1 | ACKNOWLEDGMENT OF DEPONENT | | | | |
| 2 | THE RECOVERED GIVEN TO THE PER GIVEN T | | | | |
| 3 | L ADOLL HOURS CARGON M.D. | | | | |
| 4 | I, ARCH I. "CHIP" CARSON, M.D., Ph.D., do hereby certify that I have read the | | | | |
| 5 | foregoing pages and that the same is a | | | | |
| _ | correct transcription of the answers given by | | | | |
| 6 | me to the questions therein propounded, except for the corrections or changes in form | | | | |
| 7 | or substance, if any, noted in the attached | | | | |
| 0 | Errata Sheet. | | | | |
| 8 9 | | | | | |
| 10 | | | | | |
| 11 12 | | | | | |
| 12 | ARCH I. "CHIP" CARSON, M.D., Ph.D. DATE | | | | |
| 13 | . , | | | | |
| 14 15 | Subscribed and sworn to before me this | | | | |
| 16 | day of , 20 . | | | | |
| 17 | My commission expires: | | | | |
| 18 19 | | | | | |
| 20 | Notary Public | | | | |
| 21 | • | | | | |
| 22 23 | | | | | |
| 24 | | | | | |
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